MJ BARINA SPARK

OWNER'S HANDBOOK

GM Holden Ltd, ABN 84 006 893 232 (hereinafter Holden)

Change of name, address or ownership

In the event of a Safety Recall, or for various reasons, Holden may need to contact you as the owner of this vehicle.

If you have recently changed your address, or name, or purchased this vehicle second-hand, please help us to help you by taking a few minutes to fill in and mail the forms at the beginning of the Service/warranty booklet.

For information about GM Holden's privacy policy or to update owner details online, please visit Holden's website at www.holden.com.au

Note Please refer to the inside front cover of the Service/warranty booklet for the Vehicle Identification Certificate.

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Introduction

We thank you for choosing Holden and want to assure you of our continuing interest in your driving pleasure and satisfaction.
This handbook applies to the current Barina Spark model. Therefore, due to different models and options, you may find reference in this Handbook to some equipment not fitted to your own vehicle.
Please note that all information, illustrations and specifications in this Handbook are based on the latest production information available at the time of printing. Holden reserves the right to make changes at any time without notice and without incurring any obligation.

Introduction

Your vehicle is a designed combination of advanced technology, safety, environmental friendliness and economy.

This Owner's Handbook provides you with all the necessary information to enable you to drive your vehicle safely and efficiently.

Make sure your passengers are aware of the possible risk of accident and injury which may result from improper use of the vehicle.

Using this manual

- The In brief section will give you an initial overview.
- The table of contents at the beginning of this manual and within each chapter shows where the information is located.
- The index will enable you to search for specific information.
- Directional data, e.g. left or right, or front or back, always relate to the direction of travel.
- Depending on the model variant, integrated special equipment and accessories, the scope of equipment of your vehicle can differ from the descriptions in this Owner's Handbook.
- iPod® is a registered trademark of Apple Inc.
- The *Bluetooth*® word mark and logo are registered trademarks and are owned by the Bluetooth SIG, Inc.

Danger, warnings and cautions

⚠Danger

Text marked ⚠ **Danger** provides information on risk of fatal injury. Disregarding this information may endanger life.

⚠Warning

Text marked ⚠ **Warning** provides information on risk of accident or injury. Disregarding this information may lead to injury.

Caution

Text marked **Caution** provides information on possible damage to the vehicle. Disregarding this information may lead to vehicle damage.

In brief

Initial drive information

Locking/unlocking the vehicle

Remote keyless entry

The key operates all locks and the ignition.

- Press to lock the doors and the tailgate.
- Press to unlock the doors and the tailgate.

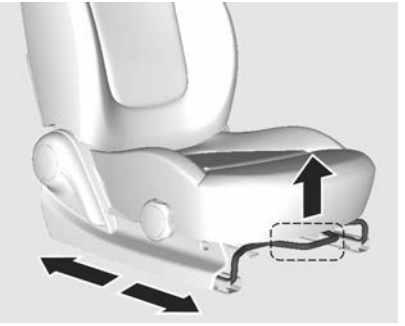
Doors, see page 18.

Central locking system, see page 17.

Tailgate, see page 19.

Seat adjustment

Seat positioning



1. Move the seat forwards or backwards by lifting the bar at the front and sliding the seat.
2. Release the bar to engage the latch.

Seats, restraints, see page 26.

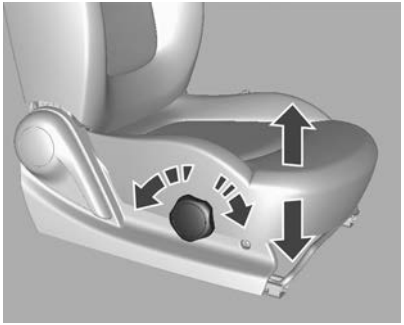
Seat backrests

1. Recline the seatback by pulling the lever.
2. Adjust the angle and release the lever.
3. Allow the seat to engage audibly.

Note
Do not lean on the seat when adjusting.

Seats, restraints, see page 26.

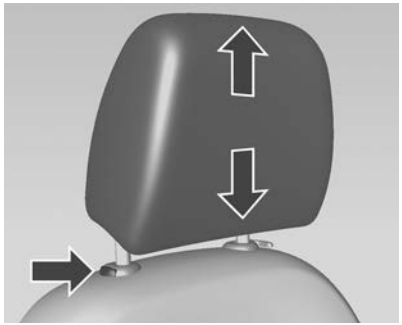
Seat height



- Rotate the hand wheel to adjust the height of the seat.

Seats, restraints, see page 26.

Head restraint adjustment



- Lift the head restraint up to raise.
- Push the locking button and push the head restraint down to lower.
- Push the locking button and pull the head restraint up to remove.

Head restraints, see page 26.

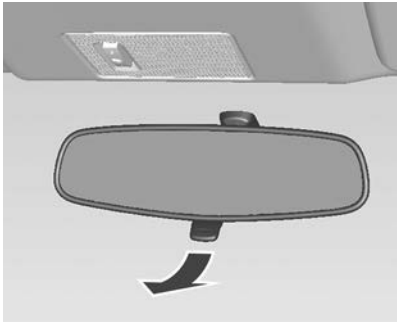
Seat belts

1. Withdraw the belt from the reel.
2. Pull the metal tongue across your body into the buckle, until it clicks into place.
3. Tension the lap belt regularly while driving by tugging the shoulder belt.

Seat belts, see page 30.

Mirror adjustment

Interior mirrors



To reduce headlamp glare from following vehicles, pull the lever towards the rear of the vehicle.

Interior mirrors, see page 23.

Exterior mirrors

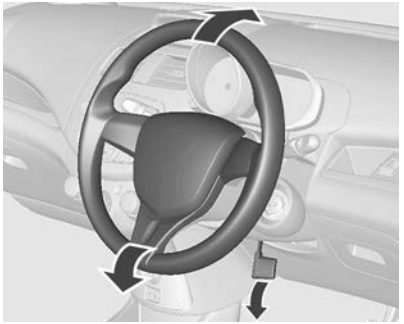
To adjust the external rear view mirrors:

- Push the switch on the left side **L** to operate the passenger side mirror.
- Push the switch on the right side **R** to operate the driver side mirror.
- Push the switch to adjust the selected mirror.

Power mirrors, see page 22.

Folding mirrors, see page 23.

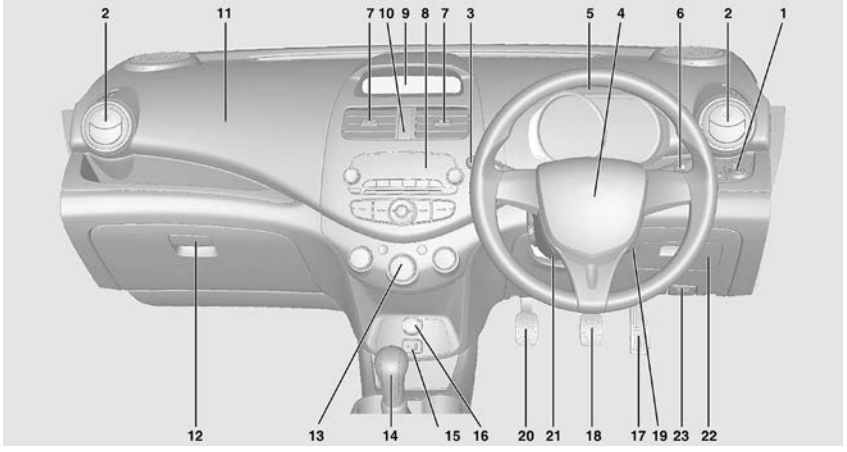
Steering wheel adjustment



1. To unlock, move the lever down.
2. Adjust the steering wheel.
3. To lock, move the lever up. Ensure the steering wheel is locked in position before driving.

Steering wheel adjustment, see page 45.

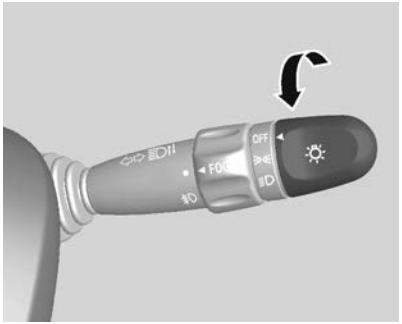
Instrument panel overview



1. Remote control mirrors
2. Side air vents
3. Wiper and washer lever
4. Horn and driver's airbag
5. Instrument cluster
6. Exterior lighting and turn signals
7. Centre air vents
8. Infotainment system
9. Centre display
10. Hazard warning flasher
11. Passenger's airbag
12. Glove box
13. Climate control
14. Shift lever
15. USB/Auxiliary socket
16. Power outlet
17. Accelerator pedal
18. Brake pedal
19. Ignition switch/lock
20. Clutch pedal (manual transmission)
21. Steering wheel adjustment
22. Fuse panel
23. Bonnet release lever

Exterior lighting

(Type 1)



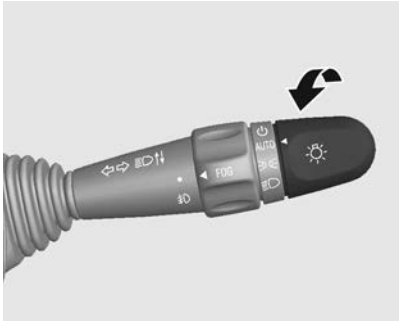
OFF: Turns all lamps and lights off.

(Park lamps): Turns on the park lamps, number plate lamps and instrument panel lighting.

(Headlamps): Turns on the headlamps and all park lamps, when the ignition is turned on.

Exterior lighting, see page 64.

(Type 2)



: Turns all lamps and lights off.

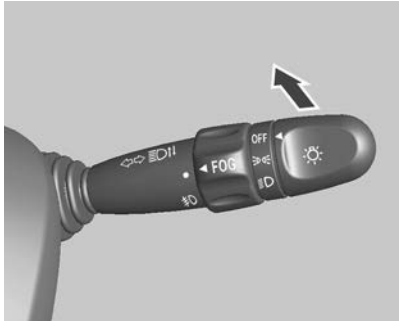
AUTO: Headlamps are switched on and off automatically depending on external lighting conditions.

(Park lamps): Turns on the park lamps, number plate lamps and instrument panel lighting.

(Headlamps): Turns on the headlamps and all park lamps.

Exterior lighting, see page 64.

High/low beam



To activate high beam:

1. Turn the headlamps on.
2. Push the lever forwards.

   The high beam indicator lamp illuminates on the instrument cluster.

To return to low beam:

1. Pull the lever rearwards.

Exterior lighting, see page 64.

Hazard warning flashers

Press ⚠ to turn the hazard warning flasher on or off, when the ignition is in any position.

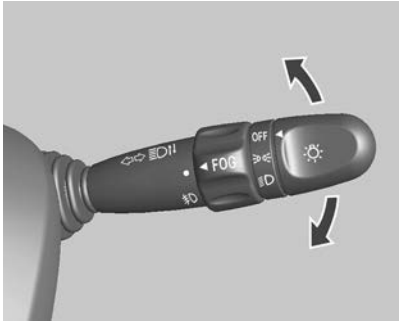
All turn signals flash continuously.

Use the hazard warning flasher if the vehicle becomes a traffic hazard, day or night.

Note
Using hazard warning flashers while the vehicle is moving, is illegal in some States and Countries.

Lighting, see page 64.

Turn and lane change signals



- Push the lever in the direction the steering wheel is turned.
- A green arrow on the instrument cluster flashes when the lamps are in operation.

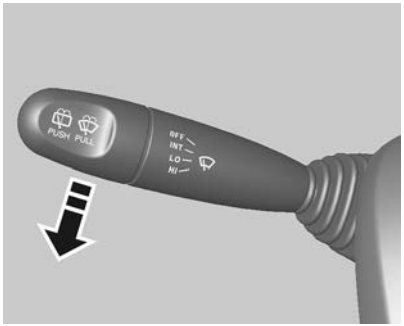
Lighting, see page 64.

Horn

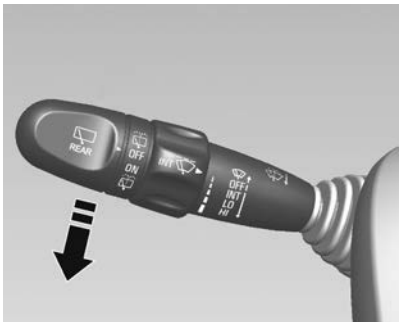
Press .

Windscreen wiper/washer

Windscreen wiper



(Type 1)



(Type 2)

OFF Off

INT Intermittent wipe

LO Continuous slow speed

HI Continuous fast speed

Note Wipers cycle once while the lever is pushed down slightly and released.

Windscreen wiper/washer, see page 46.

Windscreen washer

(Type 1)

(Type 2)

Pull to wash the windscreen. Washer fluid is sprayed and the wipers cycle for a short time.

Windscreen wiper/washer, see page 46.

Climate control system

The climate control panel is located in the centre of the instrument panel.

Climate control, see page 116.

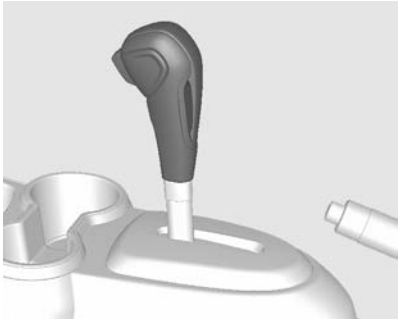
Air conditioning system, see page 116.

Windscreen demister, see page 118.

Rear window demister, see page 119.

Transmission

Automatic transmission



P: Park

R: Reverse

N: Neutral

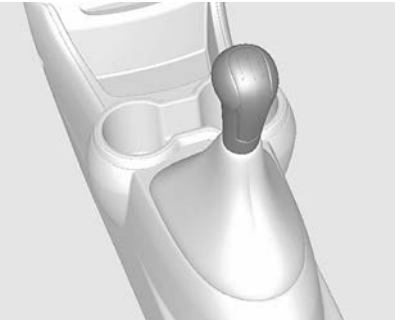
D: Drive

I: Intermediate (between low and drive)

L: Low

Automatic transmission, see page 125.

Manual transmission



- When shifting from one gear to another, push the clutch pedal to the floor.
- Do not engage reverse gear while the vehicle is moving.
- Pause between pressing the clutch pedal and moving into reverse gear.

Manual transmission, see page 130.

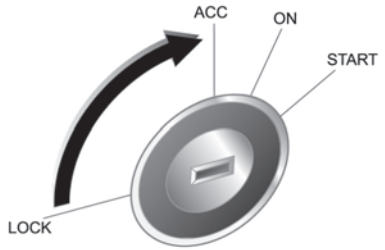
Getting started

1. Check that windows, mirrors and lamps are clean.
2. Visually check tyre inflation. Check tyre pressures weekly.
3. Close and secure all doors.
4. Position the seat for comfortable driving.
5. Adjust rear view mirrors.
6. Fasten seat belts.
7. Check that warning indicators illuminate when turning the ignition on.

Warning lights, gauges and indicators, see page 49.

Driving and operating, see page 121.

Starting the engine



⚠Warning

Do not turn the engine off while the vehicle is moving as there will not be any power assist for brakes or steering.

Never remove the key while the vehicle is moving, as this will lock the steering.

LOCK: The key can only be inserted and removed from this position.

ACC**:** When the key is in this position, the audio system operates.

ON: When the key is in this position, the engine is ready to start and all electrical systems are active.

Do not leave the switch in this position for a long time, unless the engine is running, otherwise the vehicle's battery will discharge.

START: Turn the key to this position and release when the engine is running.

Ignition positions, see page 122.

Parking

1. Apply the park brake.
2. Automatic transmission: Select position **P**.

   Manual transmission: If facing uphill or on flat ground, select 1st gear. If facing downhill, select reverse gear.
3. Shut all windows.
4. Turn the ignition off and remove the key.
5. Press on the key to lock all doors.

Vehicle security, see page 20.

Driving and operating, see page 121.

Keys, doors and windows

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Vehicle security 20
Exterior mirrors 22
Interior mirrors 23
Windows 24

Keys and locks

Keys

The key operates all locks and the ignition.

- Press to lock the doors and the tailgate.
- Press to unlock the doors and the tailgate.
- Press to sound the vehicle locate button.

  See Doors on page 18.

  See Central locking system on page 17.

  See Tailgate on page 19.

  See Vehicle locate/panic alarm on page 18.

Foldaway key blade

1. Press the button to extend the key blade.
2. To retract the key blade, press the button and fold the blade into the key.

   The key engages audibly.

About the keys

- The remote control has a range of approximately 20 metres.
- The range depends on the charge of the key battery, on ambient conditions, the key's location and the area between them.
- Take care that no button is pressed unintentionally, especially when the vehicle is out of sight.
- Protect from moisture and high temperatures.

The key buttons may not work if:

- More than 20 metres from the vehicle.
- Battery voltage is too low. See Battery replacement on page 16.
- The key buttons are operated repeatedly while not in range of the vehicle.
- The central locking system is operated at frequent intervals.
- The power supply is interrupted for a short time.
- The vehicle is parked near strong radio activity.

Replacement keys

If a key is lost, a replacement can be ordered through any Holden Dealer by quoting the key code number.

Radio remote control

Battery replacement

As soon as the range of the remote control reduces, replace the battery:

Use CR2032 (or equivalent) battery.

1. Open the cover.
2. Remove the used battery without touching other components.
3. Install the new battery with the negative side (-) facing down.
4. Replace the back cover.
5. Check key operation.

Caution
Avoid touching the flat surfaces of the battery, the circuit board and other components inside the remote control with bare fingers. Handling will shorten battery life.

Note

- Batteries do not belong in household waste. Dispose of at an appropriate recycling collection point.
- Avoid dropping the transmitter.
- Do not place heavy objects on the transmitter.
- Keep the transmitter away from water and direct sunlight.

  If the transmitter gets wet, wipe it with a soft cloth.

Central locking system

Doors may be locked and unlocked by pushing buttons on:

- The driver's door
- The key, from inside or outside the vehicle

Note

The driver's door must be closed for the central locking system to work.

Unlocking

- Press .

  All doors unlock.

  The hazard lamps flash twice.

Locking

- Press .

  All doors lock.

  The hazard lamps flash once.

Vehicle locate/panic alarm

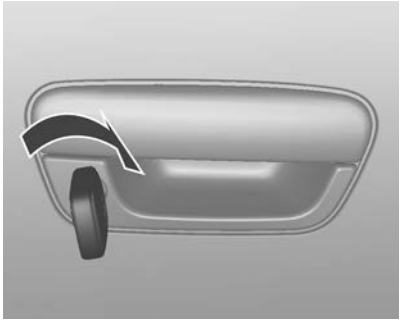
- Press and release once to locate the vehicle.

  The exterior lamps flash and the horn sounds.
- Press and hold for 3 seconds to sound the panic alarm.

  The horn sounds and the turn signal lamps flash for 30 seconds until the button is pressed again or the ignition switch is turned to ACC or ON.

Doors

Manual door locks



Unlocking:

1. Insert the key into the driver's door by turning the key towards the front of the vehicle.

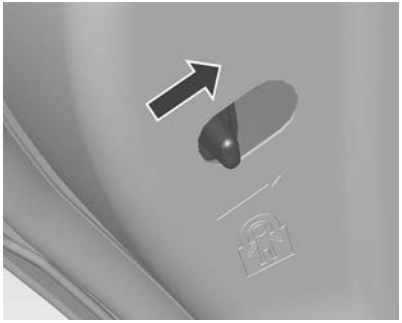
   The other doors can be opened with the door handle.

Locking:

1. Push the locking knob on the inside of all doors, except the driver's door.
2. Close the driver's door and lock from the outside with the key.

   Insert the key and turn towards the rear of the vehicle.

Child safety rear door locks



⚠Warning

Use the child safety door locks whenever children are occupying the rear seats.

To prevent the doors from being opened from the inside, move the lever up to the lock position.

Caution

Do not apply excess force to the inside door handle while the child safety door lock is activated. Damage may occur.

To open a rear door when the child safety door lock is activated, open the door from the outside.

Tailgate

⚠Warning

Do not drive with the tailgate open or ajar, e.g. when transporting bulky objects. Dangerous exhaust fumes may enter the vehicle.

To avoid injury and/or damage to the vehicle, check each time, before the tailgate is closed, that the contact area is unobstructed.

Caution

Before opening the tailgate, check the area above and behind for obstructions, to avoid damage to the tailgate.

Note

Adding heavy accessories to the tailgate may affect its ability to remain open.

Remote unlocking/locking

Unlocking:

1. Press .
2. Pull the handle upwards.

Locking:

1. Push down so it latches securely.
2. Press .

Manual unlocking/locking

Unlocking:

1. Insert the key into the key slot.
2. Turn the key anticlockwise.
3. Pull the handle upwards.

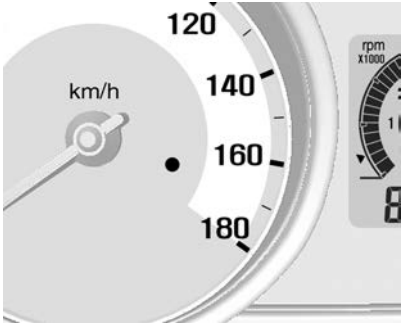
Locking:

1. Push the tailgate down so it latches securely.
2. Insert the key into the key slot.
3. Turn clockwise to lock.

Vehicle security

Anti-theft alarm system

The vehicle may have an anti-theft alarm system that monitors the doors, tailgate, bonnet and ignition.



(Type 1)

(Type 2)

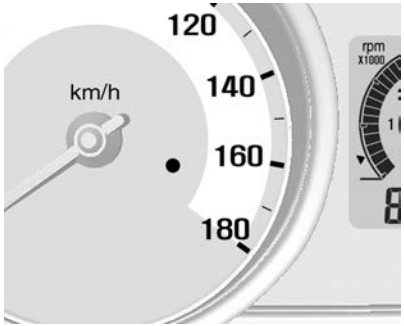
- Press on the key to arm the alarm system (after about 30 seconds).
- Press a second time to arm the alarm immediately.
- The alarm system status indicator flashes when the alarm is armed.

Alarm sound

- The alarm sounds when any of the doors, tailgate or bonnet are opened without pressing on the key.
- To stop the alarm sounding, press on the key or turn the ignition on.

Immobiliser

The immobiliser prevents unauthorised engine starting.



(Type 1)

(Type 2)

- If an invalid key is inserted into the ignition switch/lock, an indicator on the instrument cluster will flash.

  The vehicle will not start.
- The engine is automatically immobilised when the key is turned to the LOCK position and is removed from the ignition switch/lock.
- Only valid ignition keys can be used to start the engine.
- If there is a fault with the system, the light will illuminate.

Exterior mirrors

Convex mirror

The convex exterior mirrors provide a wider view of the road and traffic.

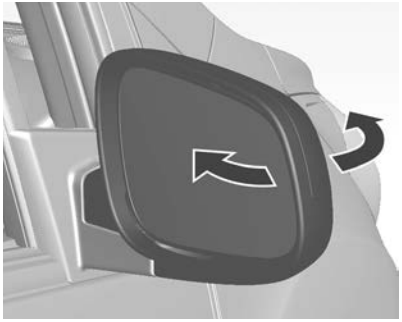
Note
Objects appear smaller than their actual size.

Power mirrors

To adjust the external rear view mirrors:

- Push the switch on the left side **L** to operate the passenger side mirror.
- Push the switch on the right side **R** to operate the driver side mirror.
- Push the circular switch to adjust the selected mirror.

Folding mirrors



When the vehicle is parked, the mirrors may be folded flat against the side of the vehicle.

⚠Warning

Always extend mirrors outwards for driving to increase visibility.

Do not drive while either exterior mirror is folded against the vehicle.

Heated mirrors

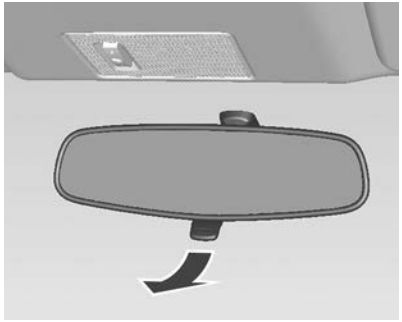
The vehicle has heated rear view mirrors.

1. Turn the ignition on.
2. Press .

   The heating is switched on automatically when the rear window demister is switched on and is switched off automatically after a few minutes or by pressing the button again.

Interior mirrors

Rear view mirror



To reduce headlamp glare from following vehicles, pull the lever towards the rear of the vehicle.

Note

The rear view clarity is reduced when the mirror is set to the anti-glare position.

Return the lever back to its original position as soon as the glare has disappeared.

Windows

Manual windows

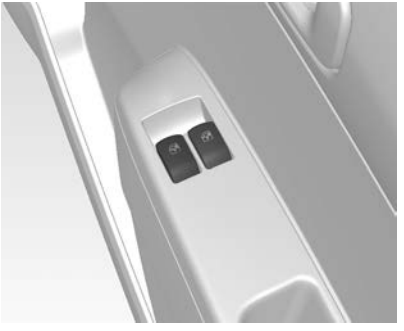
The vehicle has manual rear door windows.

Windows may be opened or closed by turning the window winders.

Power windows

⚠Warning

Before operating the power windows, check they are free of obstructions and that passengers and pets are not in the proximity of the moving window.



The vehicle has front power windows.

The power windows can be operated when the ignition is turned on.

Push and hold or pull and hold the required button, to raise or lower a window.

The window stops moving up as soon as the button is released.

⚠Danger

Do not leave keys or children unattended in the vehicle.

Children may operate the switches and become trapped in the windows.

Serious injury or death may occur from misuse of power windows.

Sun visors

The sun visors may be folded down or folded outwards over the side window, to prevent glare.

- The sun visors may have mirrors.
- Close the mirror cover when driving.

⚠Warning

Do not place the sun visor in such a position that reduces visibility of the roadway, traffic or other objects.

Seats, restraints

Head restraints 26
Front seats 27
Rear seats 29
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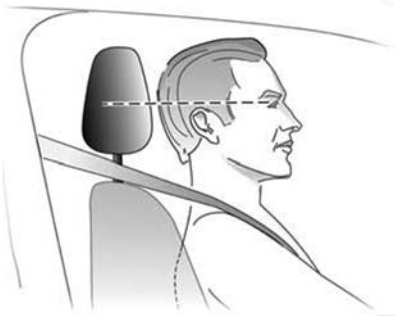
Airbag system 33
Child restraints 38

Head restraints

⚠Warning

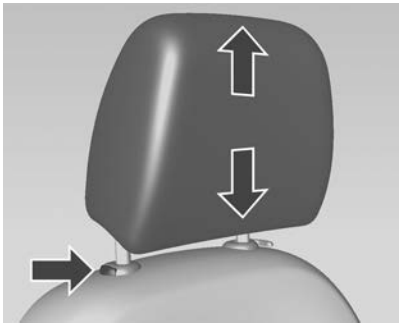
This safety feature is not intended as a headrest. It is solely for the reduction of whiplash neck movement in an accident involving your vehicle.

The centre of the head restraint should be at eye level, never at neck level.



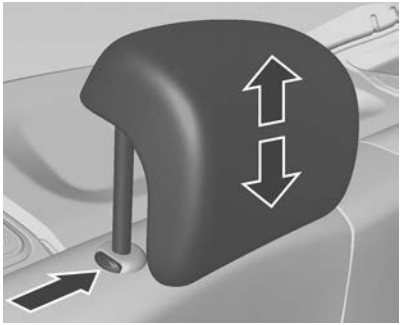
Height adjustment

Front head restraints



- Push the locking button and push the head restraint down to lower.
- Push the locking button and pull the head restraint up to remove.

Rear head restraints



- Push the locking button and push the head restraint down to lower.
- Push the locking button and pull the head restraint up to remove.

Front seats

Seat position

⚠Warning

To avoid reducing the effectiveness of seat belts, seatbacks should only be upright or at most semi-reclined when the vehicle is moving.

- Sit centrally in the seat.
- Use the backrest and cushion for support.
- Adjust the seat so that your legs are slightly angled when against the pedals.
- Adjust the backrest angle to easily reach the steering wheel with arms slightly bent. See Steering wheel adjustment on page 45.
- Maintain contact between shoulders and the backrest when turning the steering wheel.
- Adjust the head restraint. See Head restraints on page 26.
- Slide the passenger seat as far back as possible.

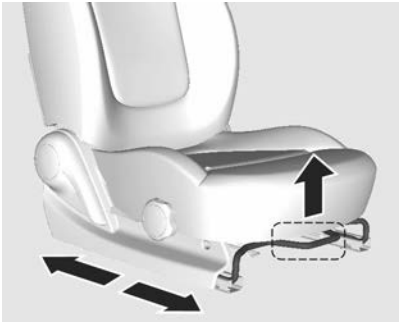
Seat adjustment

⚠Danger

Do not sit nearer than 25 cm from the steering wheel, to allow safe airbag deployment.

⚠Warning

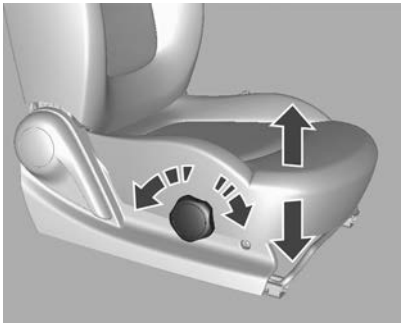
Do not adjust the driver's seat when the vehicle is moving as the seat could move suddenly causing the driver to lose control.



1. Move the seat forwards or backwards by lifting the bar at the front and sliding the seat.
2. Release the bar to engage the latch.

1. Recline the seatback by pulling the lever.
2. Adjust the angle and release the lever.
3. Allow the seat to engage audibly.

Note
Do not lean on the seat when adjusting.



- Rotate the hand wheel to adjust the height of the seat.

Rear seats

Folding down rear seatbacks

⚠Danger

Ensure the rear seatbacks are securely in place.

Do not press the release button on the top of the seatback while the vehicle is moving. This could cause damage or injuries to the occupants.

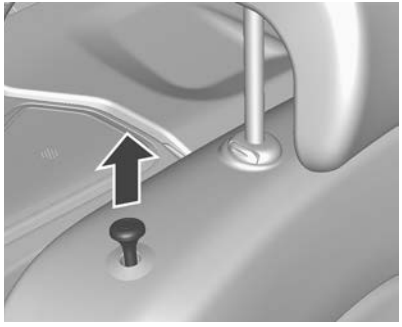
Do not allow passengers to sit on the folded seatbacks while the vehicle is in motion. Unrestrained luggage or passengers on a folded seatback could be thrown within or ejected from the vehicle in a sudden stop or accident.

Caution

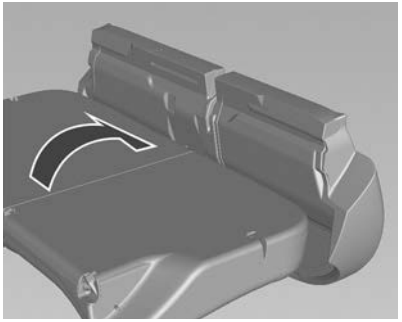
Do not trap the seat belt when returning the seatback to the upright position.

To fold the rear seatbacks down separately:

1. Slide the front seat forwards.
2. Adjust the front seatback to an upright position.
3. Remove the rear seat head restraints.
4. Pull up the front of the rear seat cushion to release it.
5. Guide the rear seat cushion to an upright position.



6. Pull the release knob on top of the rear seatback upwards.



7. Fold the rear seatback forwards and down.
8. Adjust the front seats to the desired position.

To return the seatback to the upright position:

1. Lift the seatback upwards and push firmly back into place.

   Make sure the seat belts are clear of the latch.
2. Place the rear part of the seat cushion in its original position.

   Note

   Make sure the seat belts are not twisted or caught under the seat cushion.
3. Push the front part of the seat cushion down firmly until it latches.

Seat belts

⚠Warning

Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.

Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection

for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.

Care should be taken to avoid contamination of the webbing with polishes, oils and chemicals, and particularly battery acid.

Belts should not be worn with straps twisted.

Each belt assembly must only be used by one occupant. It is dangerous to put a belt around a child being carried on the occupant's lap.

No modifications or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.

The belts lock during heavy acceleration or deceleration for the safety of the occupants.

Belt force limiters

In the front seats, stress on the body is reduced by the gradual release of the belt during a collision.

Belt tensioners

In the event of a front, side or rear collision of a certain severity, the driver's and/or passengers safety belts are tightened.

⚠Warning

Incorrect handling (e.g. removal or fitting of belts or belt buckles) can trigger the belt tensioners causing a risk of injury.

When the belt tensioners have been deployed, illuminates on the instrument cluster. See Seat belt reminder on page 53.

Triggered belt tensioners must be replaced.

Belt tensioners are only triggered once.

⚠Warning

Do not attach or install objects that may interfere with the operation of the belt tensioners.

Do not make any modifications to belt tensioner components.

Three point belt

Fitting

The belt should not be twisted. It should lie flat and fit firmly across your hips.

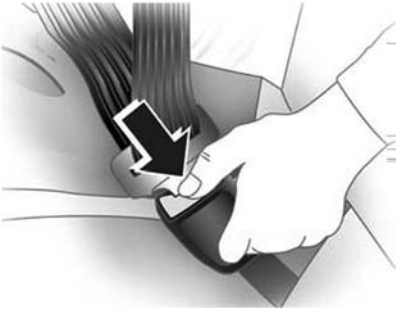
1. Withdraw the belt from the reel.
2. Pull the metal tongue across your body into the buckle, until it clicks into place.
3. Tension the lap belt regularly while driving by tugging the shoulder belt.

Do not place objects such as handbags or mobile phones between the belt and your body.

⚠Warning

The belt must not rest against hard or fragile objects in the pockets of your clothing.

Removing



1. Press the release button on the buckle.
2. Allow the belt to retract.
3. Check that it fully retracts without twisting or turning.

Seat belt use during pregnancy

⚠Warning

The lap belt must be positioned as low as possible across the pelvis to prevent pressure on the abdomen.

Seat belts work for everyone, including pregnant women. Like all occupants, they are more likely to be seriously injured if they do not wear a seat belt.

A pregnant woman should wear a three point belt with the lap portion of the belt worn as low as possible below the rounding of their stomach, throughout the pregnancy.

Seat belt care

⚠Warning

Care should be taken to avoid contamination of the webbing with polishes, oils and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.

Replacing seat belts after a crash

⚠Warning

It is essential to replace the entire assembly after it has been worn in a severe impact even if damage to the assembly is not obvious.

Airbag system

When triggered, airbags inflate within milliseconds. They also deflate so quickly that it is often unnoticeable during the collision.

⚠Danger

Do not make any modifications to the airbag system.

The driver should sit back as far as possible while still maintaining control of the vehicle. Sitting too close to the airbag, can cause death or serious injury when it inflates.

Always wear a seat belt.

⚠Warning

WARNING – EXTREME HAZARD!

Do not use a rearward facing child restraint on a seat protected by an airbag in front of it.

The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.

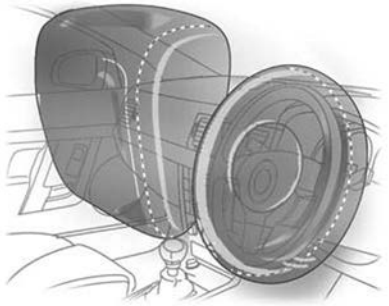
Remember that it is safest for children to be seated in the rear seats. See Child restraints on page 38.

⚠Warning

Airbags are part of the supplemental restraint system (SRS) as they assist, but do not replace seat belts. Airbags do not deploy in every accident. Various factors dictate whether they deploy including speed, angle of collision and object hit. Airbags are not designed to inflate if the vehicle is hit from the rear or is involved in a rollover. Seat belts must be worn by all passengers whenever the vehicle is moving.

Airbags inflate with great force. If you are too close to an inflating airbag it may cause injury. Seat belts help keep you in position for airbag inflation in the event of a collision.

Front airbag system



The front airbag system consists of one airbag in the steering wheel and one in the instrument panel on the passenger side. These are identified by the word **AIRBAG**.

⚠Warning

The horn pad must not be covered with adhesive or any other material.

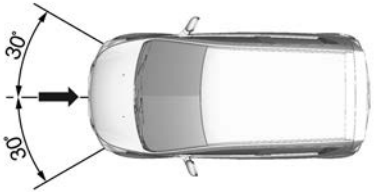
The driver should adjust the seat as far rearward as possible while still maintaining control of the vehicle.

⚠Warning

Do not place any objects on or over the instrument panel or between an airbag and yourself.

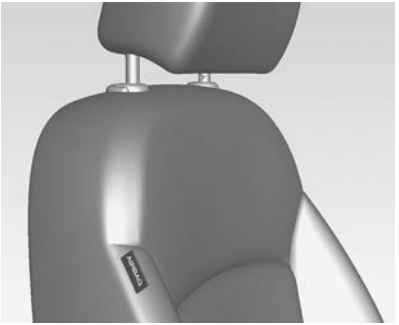
Do not hang anything from the sun visor or mirror.

Passengers must not rest their feet on the instrument panel.



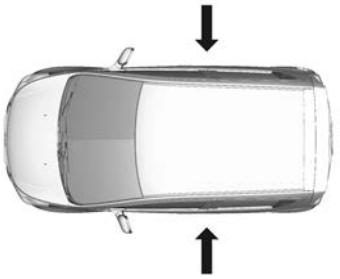
Front airbags will inflate in certain severe frontal or near frontal impacts. Front airbags are not designed to inflate if the vehicle is struck from the side, rear or in rollovers. Always wear a seat belt.

Side airbag system

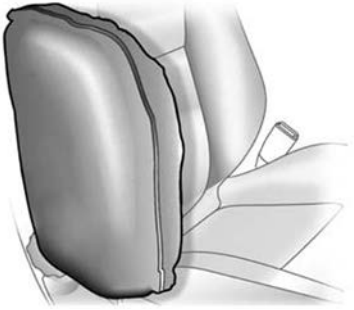


Side airbags are stored in the sides of the front seats.

They can be identified by the word **AIRBAG**.



The side airbags deploy in most, but not all severe side impacts.



The risk of injury to the upper body and pelvis in the event of a side impact is considerably reduced.

⚠Warning

Do not fit unauthorised seat covers as they may impair the deployment of the side airbags.

Do not position your body or any object (including pillows) between front seats and doors.

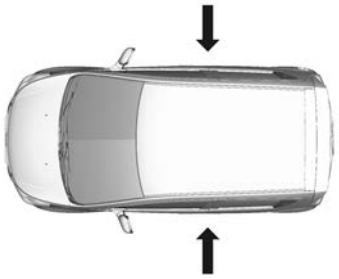
Do not lean on, or sleep against, the door. Always sit centrally in the seat.

Always wear a seat belt.

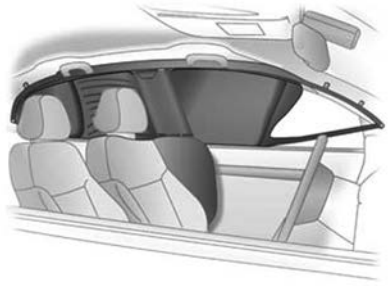
Curtain airbag system

Curtain airbags are stored in the roof on each side of the vehicle.

They can be identified by the word **AIRBAG** on the door pillars.



The curtain airbags deploy in most, but not all severe side impacts.



The risk of injury to the head in the event of a side impact is considerably reduced.

⚠Warning

Do not position your body or any object (including pillows) in the area in which the airbag inflates.

There must be no objects in the area in which the airbag inflates. Refer to the illustration.

Use the hooks above the doors only to hang up light articles of clothing.

Do not place any objects in the pockets of the hanging items.

Do not hold onto the assist grips (above the doors) while seated in the vehicle.

Do not lean on, or sleep against the front or rear doors. Always sit centrally in the seat.

Always wear a seat belt.

Replacing airbag system parts after a crash

Note

After an accident where airbags have deployed, the systems, associated parts and hardware must be checked and replaced as required.

Seats, associated parts and hardware must also be checked and replaced as required.

The airbag system should also be inspected after an accident if:

- The instrument panel area or steering wheel is scratched, cracked or damaged.
- The front seats and upholstery are damaged.
- The headliner or trim panels are damaged.

It is recommended that this work be carried out by a Holden Dealer or approved repairer.

Child restraints

⚠Warning

WARNING – EXTREME HAZARD!

Do not use a rearward facing child restraint on a seat protected by an airbag in front of it.

The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.

Remember that it is safest for children to be seated in the rear seats.

Never carry a child while travelling in the vehicle.

⚠Warning

This manual provides you with general information concerning child restraints only.

The driver is required by law to ensure that passengers are suitably restrained. In most States and Territories of Australia and New Zealand, specific laws may exist which require children to be seated in approved child restraints.

Holden strongly recommends that you refer to your specific State or Territory regulations to determine which child restraint is suitable for your child.

⚠Warning

Always ensure that the seat belt fits firmly around the child restraint.

If a child cannot see out of the window, do not raise him/her by means of an ordinary cushion. It will not stay in place in a collision and the child can slip out of the straps and become entangled.

Selecting the right system

Infants

Rearward facing infant capsules are designed so that in the event of a collision, impact forces will be evenly spread over the baby's back, with minimal jarring to the vulnerable head and neck area.

Young children

Forward facing child seats are for use when the child is able to sit and easily hold their head upright.

Booster seats

Booster seats are for when children outgrow a typical forward facing child seat, but are still too small for three point seat belts.

Older children

A child should use a normal three point seat belt only when:

- They can sit against the back of the rear seat with knees bent comfortably at the edge of the seat.
- The lap belt rests low and snug across the hips, not across the stomach.
- The sash belt is centred on the shoulder and chest.
- They are able to stay seated like this for the entire trip.

Where to put the restraint

⚠Warning

Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses, or for attaching other items or equipment to the vehicle.

Only child restraints that have clips to attach to the vehicle's anchorage fittings are to be used. Earlier types of child restraints may not attach securely to this type of anchor.

Use only Standards Australia and New Zealand approved child restraints and harnesses. Only purchase a child restraint which carries the appropriate Standards Australia sticker of approval.

Where legally allowable, you may install a forward-facing child restraint in the front seat, but always move the passengers seat as far back as it will go. The forward facing child restraint must still be attached to the passenger side child restraint anchorage point, located behind the rear seat.

Remember, it is safest for children to be seated in the rear seat.

Note
If unsure about installing a child restraint, contact an approved restraint fitting station or a Holden Dealer.

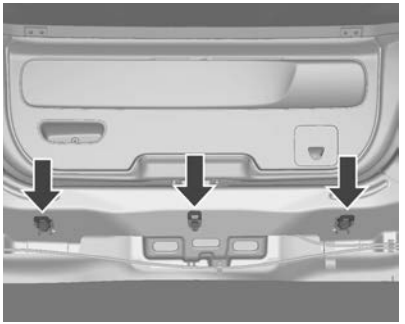
ISOFIX child restraint systems

Fasten vehicle-approved ISOFIX child restraint systems to the ISOFIX mounting brackets.

Note Ensure that seat belt buckles are placed out of the way of the child seat.

ISOFIX mounting brackets are indicated by a label on the seatback, as shown. In addition to the ISOFIX mounting, fasten the top-tether straps to the top-tether anchorage points. See Top-tether child restraint systems on page 40.

Top-tether child restraint systems



The child restraint tether anchors are located at the rear of the load compartment in line with the three rear seating positions.

Note
Use the child restraint anchors for their designed purpose only.

Child restraint installation

The vehicle has been designed to accommodate child restraints on the rear seat.

When using a child restraint, read the installation instructions supplied with the child restraint and follow the directions for fitment carefully.

The child restraint system should be secured in conjunction with the vehicle's seat belt.

Secure the child in the restraint in accordance with the manufacturer's instructions.

If unsure about installing a child restraint anchor fitting, contact an approved restraint fitting station or a Holden Dealer.

Storage

Storage compartments 42
Loading information 44

Storage compartments

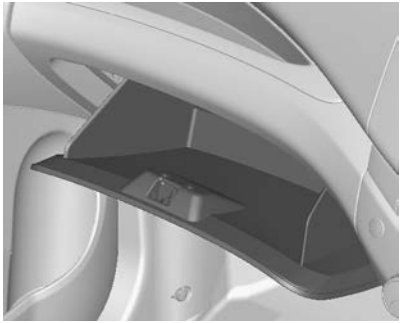
Instrument panel storage

The instrument panel storage compartment is located in front of the shift lever.

Coin storage

The coin storage compartment is located on the driver side of the instrument panel.

Glove box storage



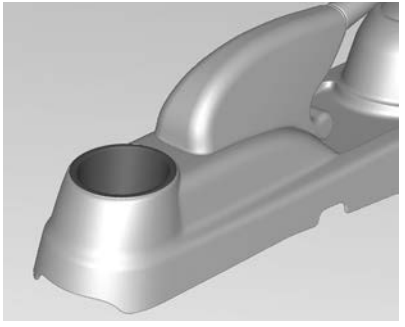
The glove box is located in the instrument panel, in front of the passenger's seat.

To open, pull the handle towards you. To close, push the lid firmly back into place.

⚠Warning

To reduce the risk of injury, always keep the glove box door closed when driving.

Cup holders



Cup holders are located in the front console and rear of the centre console.

⚠Warning

To avoid scalding, never place hot drinks in the cup holders.

Do not place uncovered containers of liquid in the cup holder while the vehicle is in motion.

Load compartment

⚠Danger

Do not stack objects higher than the front seats.

Do not allow passengers to sit on the folded seatbacks while the vehicle is in motion. Serious injuries or death can result.

For folding down rear seatbacks, see Rear seats on page 29.

Loading information

- Place all heavy objects in the load compartment as far forward as possible.
- Secure objects to prevent from sliding.

  Movement of heavy objects in the load compartment may change the handling of the vehicle.
- Ensure the backrests are securely engaged.
- Ensure that all cargo is lower than the rear seat backrests.
- Place heavier objects at the bottom.
- Do not place any objects on the load compartment cover or the instrument panel.
- Do not place unsecured objects in the interior.
- Do not drive with an open load compartment.

Instruments and controls

Controls 45
Warning lights, gauges and indicators 49
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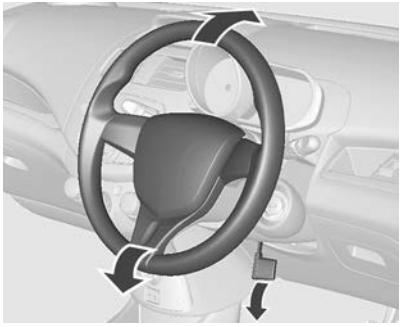
Trip computer 59
Vehicle personalisation..... 61

Controls

Steering wheel adjustment

⚠Warning

Do not attempt to adjust the steering wheel while driving.



1. To unlock, move the lever down.
2. Adjust the steering wheel.
3. To lock, move the lever up.
4. Ensure the steering wheel is locked in position before driving.

Steering wheel controls

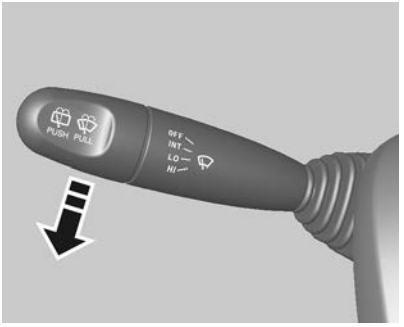
The infotainment system can be operated using the controls on the steering wheel. See Infotainment system on page 69.

Horn

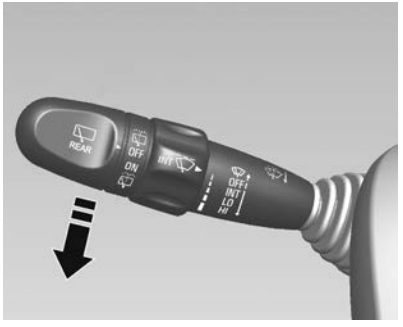
Press .

Windscreen wiper/washer

Windscreen wiper



(Type 1)



(Type 2)

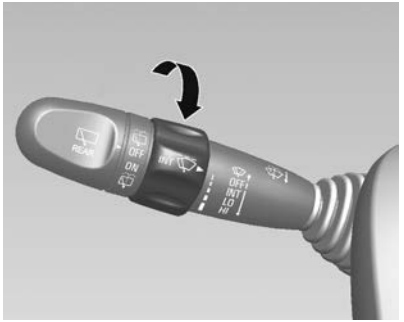
The wipers/washers operate with the ignition in the **ON** position.

Caution
Do not operate the wipers on dry glass or when covered with snow or ice, as this will damage the rubber and scratch the glass.

OFF Off
INT Intermittent wipe
LO Continuous slow speed
HI Continuous fast speed

Note Wipers cycle once while the lever is pushed up slightly and released.

Adjustable wiper interval (Type 2)

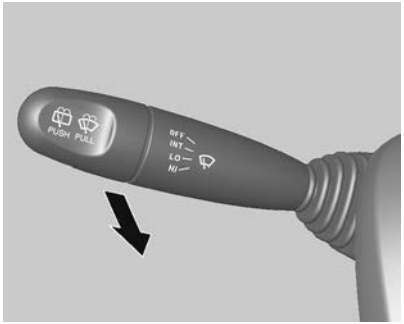


The vehicle may have an adjustable wiper interval.

During intermittent operation, adjust the frequency of the wiper interval:

- For frequent intervals, rotate the collar downwards.
- For longer intervals, rotate the collar upwards.

Windscreen washer



(Type 1)

(Type 2)

Pull to wash the windscreen. Washer fluid is sprayed and the wipers cycle.

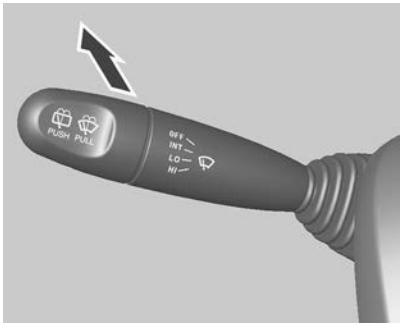
Caution

Do not operate the windscreen washer for more than a few seconds or when the washer fluid reservoir is empty.

⚠Warning

Do not spray washer fluid on the windscreen in freezing weather.

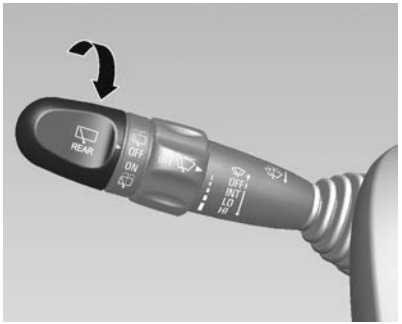
Rear window wiper/washer



(Type 1)

To operate the rear wiper/washer:

- Push to the first stop for the rear window wiper.
- Push to the second stop for the rear window washer.



(Type 2)

To operate the rear wiper/washer:

- Rotate the lever to **ON** .

Note The rear window wiper is deactivated when the transmission is in position N or the tailgate is open.

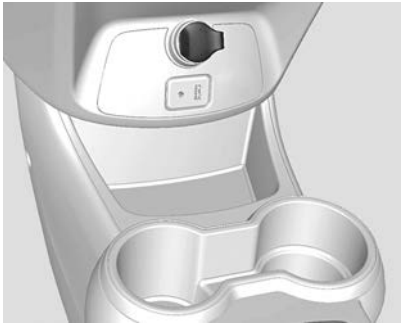
The wiper resumes wiping 10 seconds after the shift lever is moved from N.

Caution

Do not operate the wipers on dry glass or when covered with snow or ice, as this will damage the rubber and scratch the glass.

Do not operate the windscreen washer for more than a few seconds, or when the washer fluid reservoir is empty.

Power outlet



The power outlet is located in the front console.

The 12V outlet operates when the ignition is turned to the ON position.

- The power outlet does not operate if the battery voltage is low.
- Do not exceed the maximum power consumption of 120 watts.
- Do not connect electrical charging devices or batteries.

Warning lights, gauges and indicators

Speedometer

Shows vehicle speed in kilometres per hour (km/h).

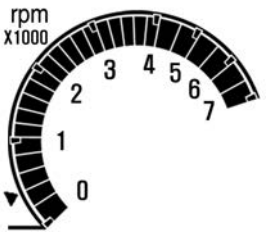
Odometer

Shows distance travelled in kilometres.

Trip odometers **A** and **B** measure distances travelled since the trip odometer was reset:

- Press △ **or** ▽ to switch displays.
- Press **SET/CLR** for more than 2 seconds to reset.

Tachometer



Shows engine speed in thousands of revolutions per minute (RPM).

Fuel gauge

Shows the level of fuel in the fuel tank (**E** = empty, **F** = full).

Movement of the fuel within the fuel tank may cause the fuel gauge indicator to move when braking, accelerating or turning.

⚠Danger

Before refuelling, stop the vehicle and switch the engine off.

Service display

Control indicators

The vehicle may have the following indicators.

Indicators illuminate for a short time when the ignition is turned on to show that the light is working.

Red: danger, important reminder

Yellow: warning, information, fault

Green: confirmation of activation

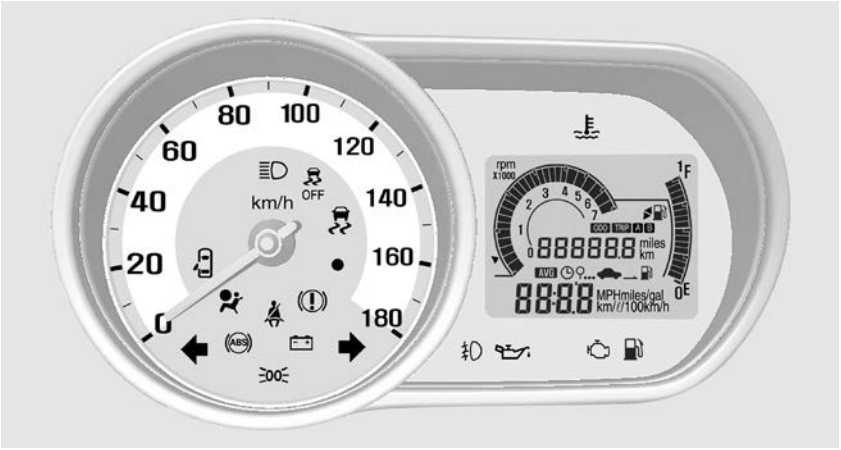
Blue: confirmation of activation

Note
Depending on vehicle variant, the instrument cluster appearance may differ.

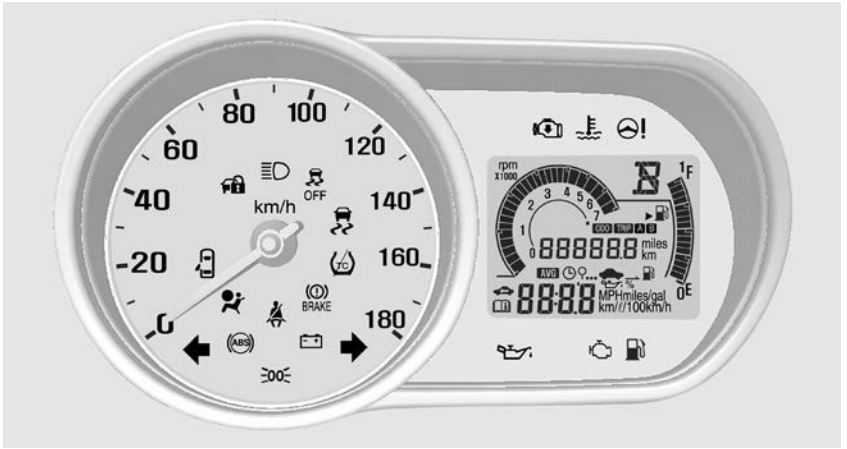
Information displays

Graphic Information Display (GID)

Instrument cluster



(Type 1)



(Type 2)

Centre display

Transmission display

(Automatic transmission)

The currently selected gear is displayed.

Turn signal

- Push the lever in the same direction the steering wheel is turned.
- ⇦⇨ flashes.

  ⇦⇨ also flashes when the hazard warning is activated.
- The turn signal will self cancel from larger turns.
- If ⇦⇨ flashes quickly, see Bulb replacement on page 151.

  See Fuses on page 157.

  See Turn and lane change signals on page 66.

Seat belt reminder

: Driver's seat belt reminder

$_2$: Front passenger's seat belt reminder (if occupied)

When the ignition is turned to the ON position:

- or $_2$ illuminates until the seat belt is fastened.

When the engine is running:

- or $_2$ flashes for 100 seconds then illuminates until the seat belt is fastened.

If the vehicle reaches a specific distance or speed and the seat belt is unfastened, or $_2$ will flash and the chime will sound for 100 seconds, or until the seat belt is fastened.

See Three point belt on page 32.

Airbag and belt tensioners

The warning light illuminates for a short time when the ignition is turned on to show that the light is working.

If the warning light does not illuminate, does not extinguish after few seconds or illuminates while driving, there is a problem with the airbag or belt tensioner system.

⚠Warning

Have any fault in the airbag or belt tensioner system repaired immediately by a Holden Dealer.

See Airbag system on page 33.

See Belt tensioners on page 31.

Charging system light

The warning light illuminates for a short time when the ignition is turned on to show that the light is working.

If the warning light illuminates while the engine is running, there is a problem with the charging system:

1. Stop and switch off the engine.
2. Contact a Holden Dealer.

Malfunction indicator light

The warning light illuminates for a short time when the ignition is turned on to show that the light is working.

If the warning light illuminates while driving, there is a problem with the emission monitoring system. Contact a Holden Dealer.

Service vehicle soon indicator light

If the indicator is displayed, the vehicle requires a service. Contact a Holden Dealer.

Brake system warning light

The or warning lights illuminate for a short time when the ignition is turned on to show that the light is working.

If the or warning light does not extinguish or illuminates while driving and the park brake is released, there is a problem with the brakes:

- Stop the vehicle as soon as it is safe to do so.
- Check the brake fluid level. See Brake fluid on page 148. See Park brake on page 132.
- Do not proceed until satisfied that braking is possible or that the cause of the problem has been repaired.
- If necessary contact a Holden Dealer.

⚠Warning

Do not drive while the brake system warning light is on.

Antilock Brake System (ABS) warning light

The (ABS) warning light illuminates for a short time when the ignition is turned on to show that the light is working.

If the (ABS) warning light illuminates, there is a problem in the ABS.

Note
The vehicle's brake system remains operational but without ABS assistance. See Antilock Brake System (ABS) on page 131.

Contact a Holden Dealer.

Power steering light

(Automatic transmission)

The ! warning light illuminates for a short time when the ignition is turned on to show that the light is working.

If the ! warning light illuminates, there is a problem with the power steering.

If the light does not go out, contact a Holden Dealer.

High beam light

The ≡D indicator light illuminates when headlamp high beam is on. See High/low beam on page 65.

Fog lamp light

The ≠D indicator light illuminates when the fog lamps are on. See Front fog lamps on page 66.

Door ajar light

The warning light illuminates when any of the doors or the tailgate are not completely closed.

Engine temperature warning light

The warning light illuminates for a short time when the ignition is turned on to show that the light is working.

If the warning light illuminates, the engine coolant is excessively hot:

- Stop the vehicle as soon as it is safe to do so.
- Let the engine idle for a few minutes.
- If the warning light does not extinguish, switch the engine off and contact a Holden Dealer.

Engine oil pressure light

The warning light illuminates for a short time when the ignition is turned on to show that the light is working.

If the warning light illuminates while the engine is running, the engine oil pressure or level is low:

- Stop the vehicle as soon as it is safe to do so.
- Turn the ignition off and remove the key.
- Check the engine oil level. See Engine oil on page 144.
- If necessary, contact a Holden Dealer.

Caution

Engine damage may result if you keep driving. Do not run the engine. If the oil level is normal, have the system checked by the nearest Holden Dealer.

Low fuel warning light

The illuminates when the fuel level is low:

Caution

To avoid damage to the catalytic converter, fill the fuel tank above the low fuel level.

See Catalytic converter on page 124.

Reduced engine power light

The warning light illuminates for a short time when the ignition is turned on and goes out shortly after the engine has started.

If illuminates along with the service vehicle soon indicator:

- There is a problem in the vehicle.
- Stop the vehicle when it is safe to do so.
- Restart the engine after 10 seconds.
- If the light remains illuminated, the vehicle may be driven at reduced speed.
- Contact a Holden Dealer.

Traction Control System (TCS) off light

(Automatic transmission)

The warning light illuminates for a short time when the ignition is turned on, to show that the light is working.

The warning light illuminates when the TCS has been deactivated. See Traction Control (TCS) on page 132.

Electronic Stability Control (ESC) indicator light

The warning light illuminates for a short time when the ignition is turned on to show that the light is working.

If the illuminates:

- There is a problem with the ESC.
- The ESC is no longer operating.
- Contact a Holden Dealer.

See Electronic Stability Control (ESC) on page 133.

If the flashes:

- The ESC is helping the vehicle with road grip and stability.
- The ESC alters engine power and/or braking on specific wheels, improving the vehicle's steering control and power delivery, on wet or slippery roads, particularly on snow and ice.

Electronic Stability Control (ESC) off light

The warning light illuminates for a short time when the ignition is turned on to show that the light is working.

The illuminates when the ESC system is deactivated.

See Electronic Stability Control (ESC) on page 133.

Driver Information Centre (DIC)

(Automatic transmission)

The DIC is located in the instrument cluster.

To select the menu:

- Press **MENU**.

  Each time MENU is pressed, the mode changes in the following order:

  Odometer/trip computer → MENU 1 → MENU 2
- **MENU 1**: Average fuel consumption, driving distance for remaining fuel, instantaneous fuel economy, average speed, driving time
- **MENU 2**: Engine oil life/Unit setting
- △/▽: Scroll through the menus
- **SET/CLR**: Set or clear the menu item displayed

See Odometer on page 49.

See Trip computer on page 59.

Engine oil life/Unit setting

To make a selection:

- Press △ or ▽ on the right side of the instrument cluster.

Engine oil life

- Displays an estimate of remaining useful life of the oil.
- If the number 98 is displayed, 98% of the current oil life remains.
- When the remaining oil life is low, the vehicle message Code 82 or Change % (change engine oil soon) will be displayed.

  The engine oil should be changed as soon as possible.
- After an engine oil change, the engine oil life system must be reset.

  To reset, press **SET/CLR** for a few seconds. This will be reset by your dealer when an oil change is performed.

Caution
Reset the engine oil life only when an oil change is performed.

- See Engine oil life system on page 185.

Unit setting

1. Press **SET/CLR** for a few seconds.
2. Press △ or ▽ to select one of the settings:

   1: (MPH, °C)

   2: (MPH, °F)

   3: (km/h, °C)

   The selected unit flashes.
3. Press and hold **SET/CLR** to confirm.

Vehicle messages

(Automatic transmission)

The messages are displayed on the DIC or can be heard as a warning chime.

Displayed messages appear as code numbers along with the Service Vehicle Soon light or the Owner Manual indicator.

Depending on vehicle equipment and vehicle personalisation, some of the functions described below may not be available.

Caution
If a vehicle message is displayed, have the vehicle checked by a workshop immediately.

No.	Vehicle message
10	Brakes Overheated
75	Service AC System
81	Service Transmission
82	Change Engine Oil Soon
89	Service Vehicle Soon
95	Service Airbag

Trip computer

The vehicle may have a trip computer.

Each time △ or ▽ is pressed, the trip computer display changes in the following sequence:

1. Average consumption
2. Driving distance for remaining fuel
3. Instantaneous fuel consumption
4. Average speed
5. Driving time

Whenever the ignition is turned on, the last selected mode will be displayed.

Average consumption

- Indicates the average consumption.
- The average consumption is accumulated while the engine is turned on.
- To reset, press **SET/CLR**.

Driving distance for remaining fuel

- Estimates driving distance to an empty fuel tank from the current fuel level.
- Estimates are recalculated when 4 litres or more of fuel are added.
- When the fuel level is low, **FILL FUEL** is displayed and ⛽ flashes.
- The distance range is 1 to 999 km.
- Refill while on level ground.

The driving distance for remaining fuel may differ depending on the:

- Driving conditions
- Driving pattern
- Vehicle speed

Instantaneous fuel consumption

Instantaneous consumption is displayed while the vehicle is being driven. This mode indicates the current fuel economy and can change frequently depending on driving conditions.

Average speed

- Shows the average speed of the vehicle.
- To reset the average speed to zero, press **SET/CLR** for more than 1 second.

Driving time

- Shows the total drive time.
- To reset the driving time to zero, press **SET/CLR** for more than 1 second.
- Driving time is calculated while the engine is turned on.
- The display will revert to 0:00 after 99:59 is displayed.

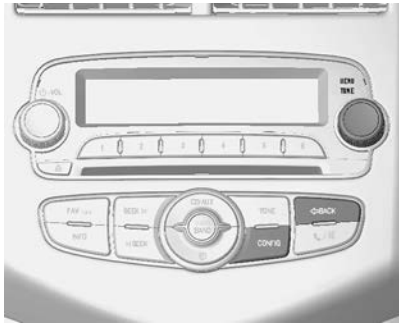
Vehicle personalisation

(Automatic transmission)

The vehicle settings can be personalised using the infotainment system controls.

Note

Depending on the vehicle variant, some of the following functions may not be available.



When the infotainment system is on:

- Press **CONFIG**.

  Settings menu is displayed.

- To change the settings, rotate **MENU TUNE**.
- To make a selection, press **MENU TUNE**.
- To return to the previous screen, press ⇦**BACK**.

The following menus can be displayed:

- Languages
- Time & Date
- Radio Settings
- Bluetooth settings
- Vehicle settings

Vehicle settings

The following list of menu items may be available:

- Comfort settings
- Exterior ambient lighting
- Power door locks
- Remote locking, unlocking, starting
- Restore factory settings

Comfort settings

- **Chime volume**: Change the volume of warning chimes.
- **Rear auto wipe in reverse**: Activate or deactivate automatically switching on of the rear window wiper when reverse gear is engaged.

Exterior ambient lighting

- **Duration upon exit of vehicle**: Activate or deactivate the exit lighting and change the lighting duration.

Power door locks

- **Auto door lock**: Activate or deactivate the automatic door locking function when shifting out of P (park).
- **Stop door lock if door open**: Activate or deactivate the driver's door lock when the door is open.

Remote locking, unlocking, starting

- **Remote unlock feedback**: Activate or deactivate the hazard warning flasher feedback while unlocking.
- **Remote lock feedback**: Activate or deactivate the hazard warning light and/or horn feedback while unlocking.
- **Remote door unlock**: Change the configuration to unlock only the driver's door all doors while unlocking.

Restore factory settings

All settings are restored to initial settings.

Lighting

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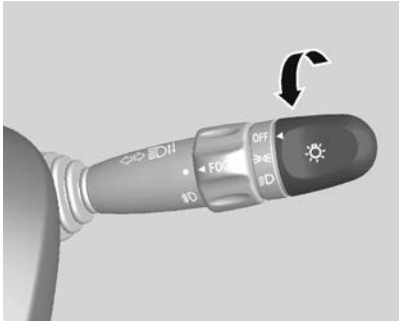
Interior lighting 67
Lighting features 68

Exterior lighting

Lamp control

(Type 1)



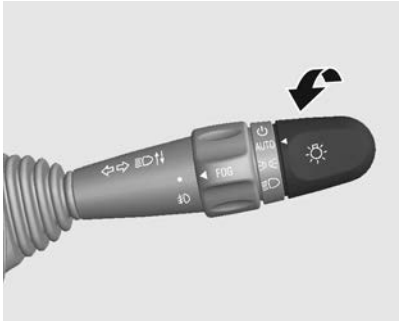
OFF: Turns all lamps and lights off.

(Park lamps): Turns on the park lamps, number plate lamps and instrument panel lighting.

(Headlamps): Turns on the headlamps and all park lamps, when the ignition is turned on.

The headlamps will turn off when the driver door is opened, after the ignition is turned to LOCK.

(Type 2)



⏻: Turns all lamps and lights off.

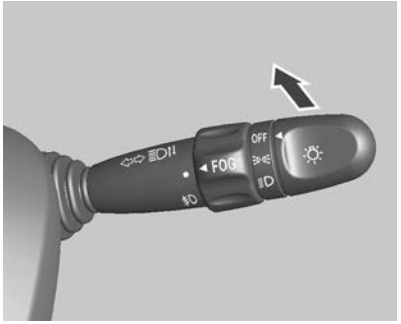
AUTO: Headlamps are switched on and off automatically depending on external lighting conditions.

(Park lamps): Turns on the park lamps, number plate lamps and instrument panel lighting.

(Headlamps): Turns on the headlamps and all park lamps.

The headlamps will turn off when the driver door is opened, after the ignition is turned to LOCK.

High/low beam



To activate high beam:

1. Turn the headlamps on.
2. Push the lever forwards.

   The high beam indicator lamp ≣D illuminates on the instrument cluster.

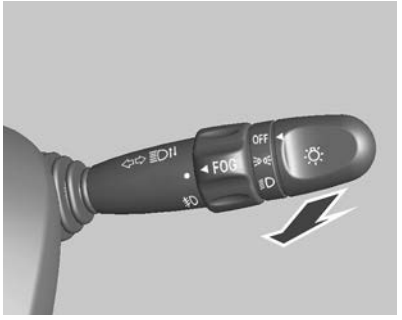
To return to low beam:

1. Pull the lever rearwards.

⚠Warning

Always switch the headlamps to low beam when vehicles are approaching or when following another vehicle.

To flash the high beam lamps:



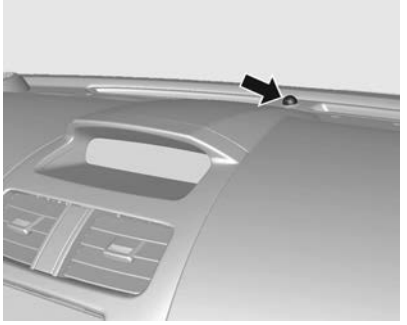
1. Turn the ignition on.
2. Pull the lever towards the rear of the vehicle and release.

   The lamps stay on for as long as the lever is held.

Automatic light control

The vehicle may have automatic light control.

When the lamp control is in the AUTO position, the headlamps are automatically switched on and off depending on lighting conditions.



- Do not cover the light sensor on top of the instrument panel.
- The automatic light control turns off when turned to ⏻ or the ignition is off.

Hazard warning flashers

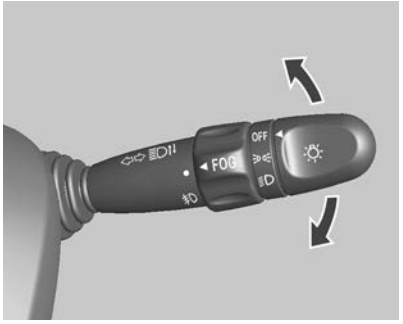
Press ⚠ to turn the hazard warning flasher on or off, when the ignition is in any position.

All turn signals flash continuously.

Use the hazard warning flasher if the vehicle becomes a traffic hazard, day or night.

Note
Using hazard warning flashers while the vehicle is moving, is illegal in some States and Countries.

Turn and lane change signals



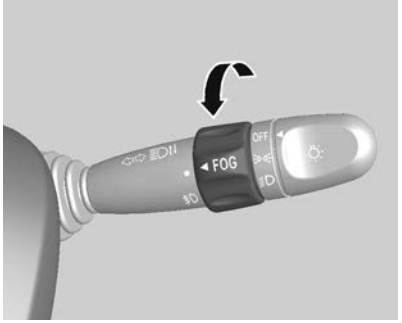
1. Push the lever in the direction the steering wheel is turned.

   A green arrow on the instrument cluster flashes when the lamps are in operation.

For three flashes, e.g. when changing lanes:

1. Push the lever until the point of resistance, then release.

Front fog lamps



1. Turn the headlamps/ park lamps on.
2. Rotate the switch to ≢D.

To turn the front fog lamps off, either:

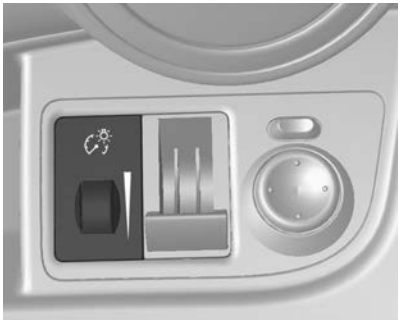
- Rotate the switch to ●.
- Turn the headlamps/ park lamps off.

Reversing lamps

The reversing lamps illuminate when the ignition is on and reverse gear is engaged.

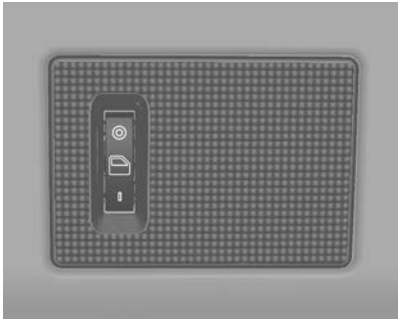
Interior lighting

Instrument panel illumination



1. Turn the headlamps on.
2. Rotate and hold the switch until the desired brightness level is reached.

Courtesy lamp



Three settings are available:

- ◎ **(Off)**
- **(Door activated)**: The lamp automatically switches on when a door is opened and switches off when doors are closed.
- **I (On)**

Note

To prevent the battery from discharging, turn the lamp off when the engine is not running.

⚠Warning

Do not leave the courtesy lamp on while driving in the dark.

Lighting features

(Automatic transmission)

Exit lighting

Set the headlamps to illuminate the way after leaving the vehicle.

Activation, deactivation and duration of the lighting can be changed in the vehicle settings. See Vehicle personalisation on page 61.

1. Turn the headlamps off.
2. Switch the ignition off.
3. Remove the ignition key.
4. Open the driver's door.
5. Pull the turn signal lever rearwards.
6. Close the driver's door.

Note

Exit lighting is activated for the period set in the vehicle settings.

Infotainment system

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Introduction

General information

Do the following before driving:

- Read the infotainment system section to become familiar with the functions.
- Set up the audio by presetting favourite stations, setting the tone and adjusting the speaker settings.

About the system

⚠Warning

When driving the vehicle, be sure to keep the volume of the unit set low enough to hear sounds from outside the vehicle (e.g. road and traffic conditions).

Caution

Do not place beverages close to the audio system.

Do not strike or allow anything to impact the audio system.

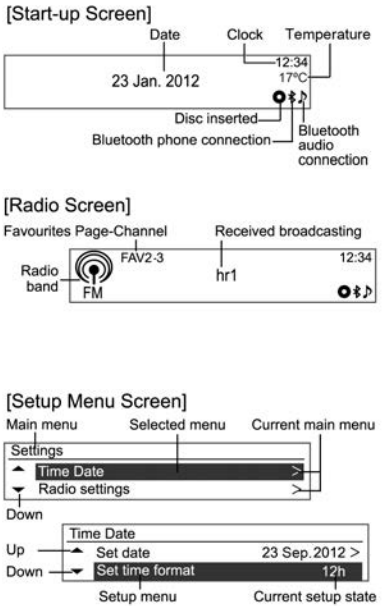
Damage to the system mechanisms could occur.

Theft-deterrent feature

The infotainment system is equipped with an electronic security system for the purpose of deterring thefts.

Overview

Screen display



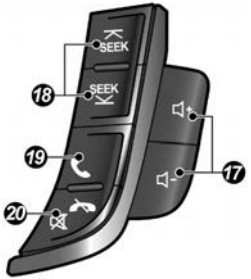
Display

The following are the main buttons and controls for the radio, CD/MP3, AUX, USB, iPod® and Bluetooth®.

1. Information display
2. Power/volume/mute button with control
3. Preset buttons 1 to 6 (radio/CD/USB)
4. CD eject button
5. CD slot
6. Favourite selection button (radio)
7. Information display button (CD/MP3/USB/iPod®) (radio where supported)
8. Seek buttons (radio/CD/MP3/USB/iPod®/ Bluetooth® music)
9. CD/AUX button (CD/AUX/MP3/USB/iPod®/ Bluetooth® music)
10. Band selection button (radio/iPod®)
11. Clock button

12. Configuration button
13. Tone button
14. Menu tune button with control
15. Back button
16. Phone/mute button

Steering wheel remote controls



17. Volume buttons:

    Pull to increase/decrease the volume in steps.

18. Seek buttons:

    Press **SEEK** or **SEEK** for the next or previous preset station (radio).

    Press to go to the next or previous track (CD, USB).

    Press and hold to rewind/forward through the currently playing track.

19. Call button:

    Press to redial.

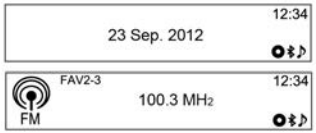
20. Press / to end a call.

    Press and hold during any music play mode to turn the mute function on/off.

Note
Depending on the vehicle variant some of the functions may not be available.

Operation

Power on/off



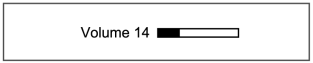
- To turn the audio system on, press ⏻ • **VOL** (2).

  The previous mode will be displayed (Bluetooth® audio may not display).
- To turn the audio system off, press ⏻ • **VOL** (2).

Note

While the ignition is off, if the audio system is turned on by pressing ⏻ • **VOL** (2), it will automatically turn off after 10 minutes, from the last operation.

Volume control



- To adjust the volume, rotate ⏻ • **VOL** (2).

  Alternatively, press + or – on the steering wheel remote controls.
- The sound volume is indicated on the display.
- When turning the audio system on, the volume level will be set to its previous selection (when it is less than the maximum starting volume). Refer to Radio settings on page 100.

Auto volume control (Type 2)

The audio system volume adjusts depending on the vehicle's speed.

As the vehicle's speed increases, the volume of the audio system also increases to compensate for the driving noise. Refer to Radio settings on page 100.

Volume limit by high temperature

If the inside temperature of the audio system is very high, the maximum volume will be limited.

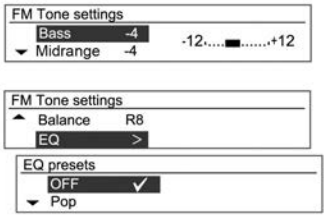
If necessary, the volume may automatically decrease.

Tone settings

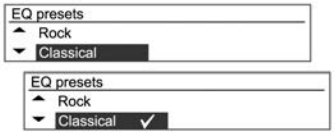
Select and adjust the sound setup mode. Settings can be set up differently for each function (radio, CD, USB or iPod®).

Tone setup menu

- Bass: Adjust the bass level from -12 to +12.
- Midrange: Adjust the midrange level from -12 to +12.
- Treble: Adjust the treble level from -12 to +12.
- Fader: Adjust the front/rear speaker balance from front 15 to rear 15.
- Balance: Adjust the left/right speaker balance from left 15 to right 15.
- EQ (Equaliser): Select or turn off the sound style (OFF ↔ Pop ↔ Rock ↔ Classical ↔ Talk ↔ Country).



1. Press **TONE** (13).
2. Rotate **MENU TUNE** (14) to make a selection.
3. Press **MENU TUNE** (14) to confirm.



To select the tone control value:

4. Rotate **MENU TUNE** (14) .
5. Press **MENU TUNE** (14) to confirm.

Select function

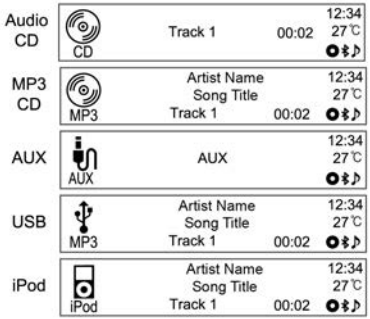
FM/AM radio

To select between FM and AM stations:

1. Press **RADIO BAND** (10) .
2. Press **MENU TUNE** (14).

   The FM/AM menu is displayed.

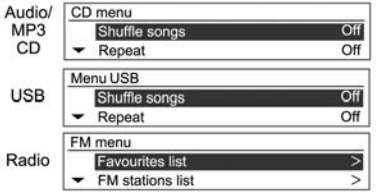
CD/MP3/USB/iPod®/Bluetooth® audio or (AUX) input



1. Repeatedly press **CD/AUX** (9) to select another audio source.

   The mode changes in the following order:

   CD/MP3 → AUX → USB or iPod, Bluetooth audio → CD/MP3 →....



2. Press **MENU TUNE** (14).
   The menu options for the current device are displayed (except Bluetooth® audio).

Bluetooth® hands-free phone device

To select Bluetooth® phone mode:

1. Press ✆/🔇 (16).

To display Bluetooth® options:

2. Press ✆/🔇 (16).

Radio

AM-FM radio

Main buttons and controls:

Preset buttons

- Press and hold any preset button **1** to **6** (3) to add the current radio station to the favourites page.
- Press a button to select the radio station linked to the preset.

Favourite button

- Press **FAV1-2-3** (6) to move through the pages of saved favourite radio stations.

Information button

- Press **INFO** (7) to view radio station information (where supported).

Phone/mute button

- Press and hold ✆/🔇 (16) to turn the mute function on or off.

Seek buttons

- Press I◁SEEK or SEEK▷I (8) to automatically search for available radio stations.
- Press and hold I◁SEEK or SEEK▷I (8) to change the radio frequency.

  Release the button to stop at the chosen frequency.

Radio band button

- Press **RADIO BAND** (10) to toggle between FM or AM radio.

Menu-tune button with control

- Press **MENU TUNE** (14) to access the menu screen when in another mode.
- Rotate to manually search for a radio frequency.

Back button

- Press ⇦**BACK** (15) to cancel input content or return to the previous menu.

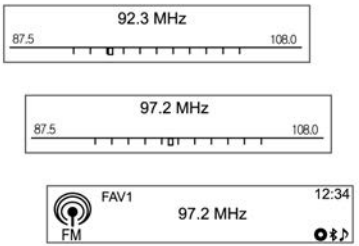
Listening to a radio station

Searching for radio stations

- To toggle between FM and AM, press **RADIO BAND** (10) repeatedly.

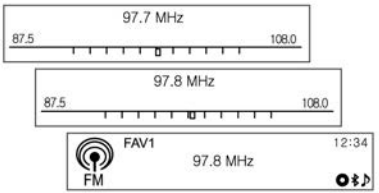
  The previously chosen broadcasting station will be received.

Automatic station search



- To automatically search for available radio stations with clear reception, press I◁SEEK or SEEK▷I (8).

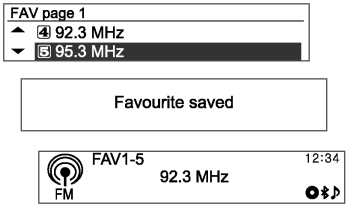
Searching for a radio station manually



- To manually search for a radio station, rotate **MENU TUNE** (14).
- Press and hold I◁SEEK or SEEK▷I (8) to change the radio frequency.

  Release the button to stop at the chosen frequency.

Using the preset buttons

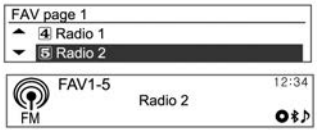


- To select a saved favourite page, press **FAV1-2-3** (6).
- To select the radio station to be added to a favourites page, press and hold a preset **1** to **6** (3).

  Up to six favourite pages can be saved and each page can store up to six radio stations.

- The number of favourite pages may be setup in Radio favourites. See Radio settings on page 100.
- If a new radio station is to be added to a preset (**1**-**6**) (3) which has an existing radio station linked to it, the previous radio station will be deleted and replaced with the new radio station.
- When adding an FM station, wait 5 seconds after the frequency is selected to allow RDS information (if available) to display, before storing to a preset.

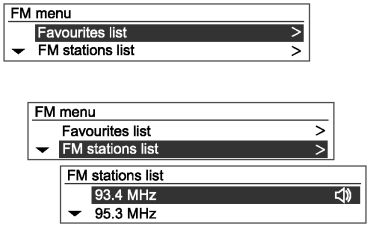
Listening using a preset



- To select a favourite preset page, press **FAV1-2-3** (6) repeatedly.

  Information for the selected favourite preset page will be displayed.
- To listen to the radio station saved to the preset, press a preset (**1**-**6**) (3).

Using the radio menu



To display the radio menu:

1. Press **MENU TUNE** (14).

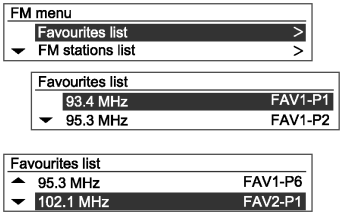
To scroll through the menu:

2. Rotate **MENU TUNE** (14).

To make a selection or to display the menu:

3. Press **MENU TUNE** (14).

Choosing the favourites list

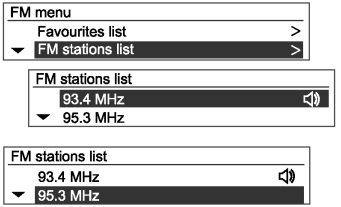


When in the FM/AM menu:

1. Rotate **MENU TUNE** (14) to scroll to the Favourites list.
2. Press **MENU TUNE** (14).

   The Favourites list information will be displayed.
3. Rotate **MENU TUNE** (14) to scroll through the Favourites list.
4. Press **MENU TUNE** (14) to select and listen to that radio station.

Choosing FM/AM station list

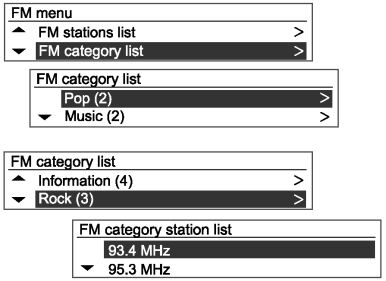


When in the FM/AM menu:

1. Rotate **MENU TUNE** (14) to scroll to the FM/AM stations list.
2. Press **MENU TUNE** (14).

   The station list information is displayed.
3. Rotate **MENU TUNE** (14) to scroll through the radio stations.
4. Press **MENU TUNE** (14) to select and listen to that radio station.

Choosing FM category list



When in the FM menu:

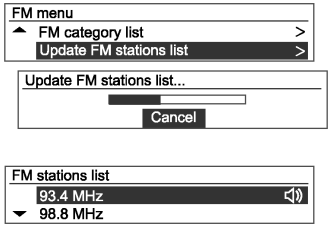
1. Rotate **MENU TUNE** (14) to scroll to the FM category list.
2. Press **MENU TUNE** (14).

   The FM category list will be displayed.
3. Rotate **MENU TUNE** (14) to scroll through the list.
4. Press **MENU TUNE** (14).

   The FM category station list will be displayed.

5. Rotate **MENU TUNE** (14) to scroll to a radio station.
6. Press **MENU TUNE** (14) to select and listen to that radio station.

Choosing update FM/AM stations list



When in the FM/AM menu:

1. Rotate **MENU TUNE** (14) to scroll to the Update FM/AM stations list.
2. Press **MENU TUNE** (14).

   The FM/AM stations list updates.

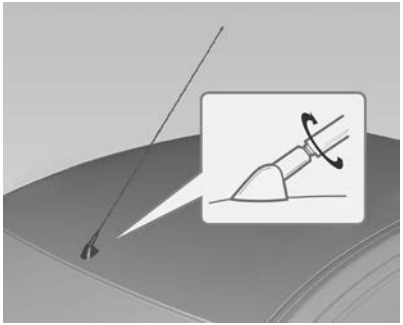
   During the update, press **MENU TUNE** (14) or ⇦**BACK** (15) to stop saving changes and to Cancel.

Radio Data System (RDS)

RDS encodes information on the system's FM frequency only.

- When tuned to an RDS station, the station name is displayed.
- Many radio stations transmit RDS information but not all, so it is possible that this feature does not operate in some regions or on some stations.
- While listening to an RDS radio station, press **INFO** (7) to view RDS broadcasting information.

Fixed mast antenna



- To remove the roof antenna, rotate it anticlockwise.
- To install the roof antenna, rotate it clockwise.

  Tighten and adjust to the upright position to ensure proper reception.

Caution
Remove the antenna before entering an area with a low ceiling or an automatic car wash. Damage may occur to the antenna or the roof panel.

Audio players

CD player

General information

Caution
If a label is added to a CD, or more than one CD is inserted into the slot at a time or an attempt is made to play scratched or damaged CDs, the CD player could be damaged. Use only CDs in good condition without any labels, load one CD only and keep the CD player and the loading slot free of foreign materials, liquids and debris.

If a description label is required, write on the top of the CD with a CD marking pen.

Caution
Avoid inserting any foreign objects into the slot of the player. Failure to observe this may cause malfunction.

CD-R format

Sound quality may be reduced due to:

- Method of recording
- Recording quality
- CD handling

Handling CDs

- Avoid leaving fingerprints on the CD when removing it.
- Store any CDs in their protective covers.
- Ensure that CDs are clean and dry before inserting.
- Protect CDs from heat and direct sunlight.
- Insert the disc with the printed side facing up.

Audio system care

Do not clean using cleaning fluid, alcohol or other solvents. Use only a damp cloth.

CD/MP3

Main buttons and controls.

Eject button

1. Press △ (4) to eject a disc.

Information button

1. Press **INFO** (7) to view file information for the track being played.

Seek buttons

1. Press I◁SEEK or SEEK▷I (8) to play the previous or next track.
2. Press and hold to fast rewind/ fast forward through the currently playing tracks.

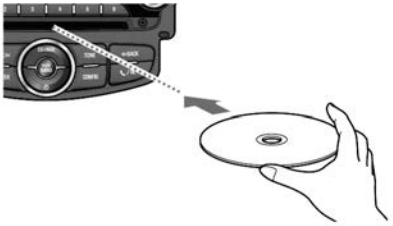
CD/AUX buttons

1. Press **CD/AUX** (9) to select CD/MP3 player.

Menu-tune button with control

1. Press **MENU TUNE** (14) to display the current selection or current mode.
2. Rotate to scroll through the track list, menu or MP3 (WMA) track information.

Inserting a disc



1. Insert the disc with the printed surface facing upwards.

2. Track 1 will play automatically.

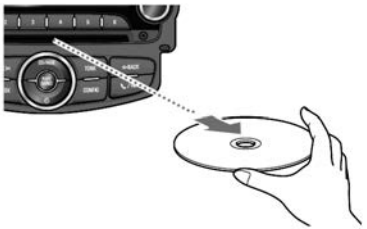
   Note
   A non-readable disc will automatically be ejected and a disc error message will be displayed. The audio system will switch to the previously used mode or FM radio.

To play a CD when in a different mode:

1. Repeatedly press **CD/AUX** (9).

   Note
   If there is no disc inserted and no other devices are connected, **No CD inserted** will be displayed.

Ejecting a disc

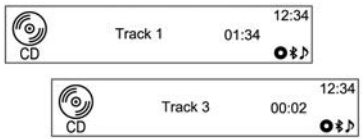


1. Press ⏏ (4).
2. Remove the disc.

   The previously used mode or FM radio plays.

   Note
   The disc will automatically reinsert if it is not removed.

Change a playing track



To play the previous or next track:

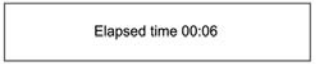
1. Press I◁SEEK or SEEK▷I (8) during play.

   Alternatively, press ⌅ **SEEK** or **SEEK** ⌄ on the steering wheel remote controls.

Alternatively:

1. Rotate **MENU TUNE** (14) to scroll to the track list.
2. Press **MENU TUNE** (14) to select and play a track.

Change playing position



1. Press and hold I◁SEEK or SEEK▷I (8) during play to rewind or fast-forward through a track.
2. Release the button to resume playing at normal speed.

   The elapsed time is displayed.

View information

To view information on the current audio CD track:

1. Press **INFO** (7).

   If no information is available, **No information** will be displayed.

To view more information on the current MP3 (WMA) track:

1. Rotate **MENU TUNE** (14) while the track information is displayed.

   Note

   The information displayed includes the file name, folder name and ID3 Tag information saved with the track.

   If incorrect ID3 Tag information (e.g. artist, song title) was added to the MP3 (WMA) file before burning to disc, this information will be displayed.

Incorrect ID3 Tag information cannot be modified or corrected on the audio system.

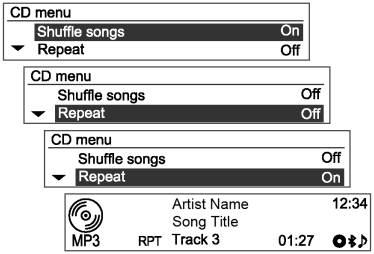
Information for tracks shown in symbols or in unavailable languages may be displayed as ---- or are not displayed at all.

Using the CD menu

Shuffle and repeat

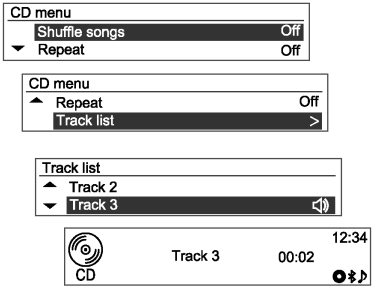
During play:

1. Press **MENU TUNE** (14) to display the CD menu.



2. Rotate **MENU TUNE** (14) to select shuffle or repeat.
3. Press **MENU TUNE** (14) to turn on or off.

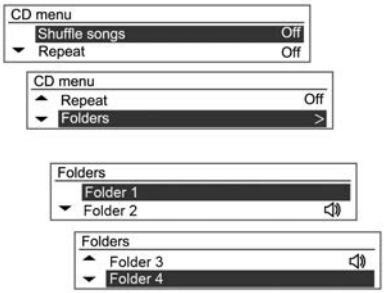
Track list



Audio CDs during play:

1. Press **MENU TUNE** (14) to display the CD menu.
2. Rotate **MENU TUNE** (14) to scroll to Track list.
3. Press **MENU TUNE** (14) to select Track list.
4. Rotate **MENU TUNE** (14) to select a track.
5. Press **MENU TUNE** (14) to play the selected track.

Search folders

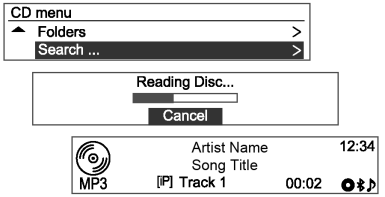


MP3 (WMA) CDs during play:

1. Press **MENU TUNE** (14) to display the CD menu.
2. Rotate **MENU TUNE** (14) to scroll to folders.
3. Press **MENU TUNE** (14) to select folders.
4. Rotate **MENU TUNE** (14) to scroll through the folders.
5. Press **MENU TUNE** (14) to select the folder.

6. Rotate **MENU TUNE** (14) to select a track.
7. Press **MENU TUNE** (14) to play the selected track.

Search CD



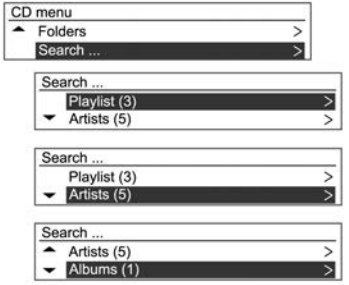
MP3 (WMA) CDs during play:

1. Press **MENU TUNE** (14) to display the CD menu.
2. Rotate **MENU TUNE** (14) to scroll to Search.
3. Press **MENU TUNE** (14).

   The first song of the playlist [iP] will be displayed.

   If there are no music files in the playlist [iP], the first song for each artist [iA] will be displayed.

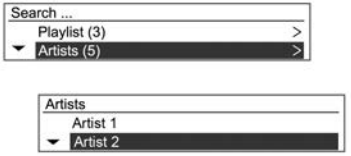
Note
It may take a while to read the disc depending on the number of music files.



4. Press **MENU TUNE** (14) when the search items are displayed.
5. Rotate **MENU TUNE** (14) to scroll.

   The number of songs will be displayed by:

   Playlist [iP], Artists [iA], Albums [iL], Songs [iS] or Genres [iG].
6. Press **MENU TUNE** (14) to select.



7. Rotate **MENU TUNE** (14) to scroll.
8. Press **MENU TUNE** (14) to make a selection.

9. Rotate **MENU TUNE** (14) to find a track.
10. Press **MENU TUNE** (14) to play the selected track.

Auxiliary devices

AUX input

Main buttons and controls:

CD/AUX buttons

1. Press **CD/AUX** (9) repeatedly when an AUX device is connected to select AUX input mode.

Power/volume/mute button

- Rotate ⏻ • **VOL** (2) to adjust the volume.

Connecting an audio device

Connect the audio output of the audio device to the AUX input terminal.

The audio system will automatically switch to AUX mode when the device is connected.

- If the AUX device is already connected, press **CD/AUX** (9) to select.

USB port

General information

A USB stick or iPod® can be connected to the USB/iPod® port.

⚠Warning

Do not connect devices such as; hard discs, multi plug USB hubs or other digital equipment to the USB/iPod® port.

Connecting other devices can cause malfunction or destroy the audio equipment.

Do not use any equipment that prevents safe driving.

Caution

In rare cases, a USB stick (thumb drive) may not be recognised by the system or may cause a malfunction.

Caution

USB storage devices can only be connected to this product for the purpose of playing music files.

The USB port should not be used to charge USB accessory equipment since the heat generation using the USB terminal may cause performance issues or damage to the product.

- Avoid touching the USB connecting terminal with any objects or fingers.
- The USB storage device can only be recognised when it is formatted in FAT16/32 file format.
- This product displays MP3 (WMA) files with the mp3, .wma or .MP3 or .WMA file name extensions.

- Depending on the type and capacity of the USB storage device and the type of stored files, the time it takes to recognise the files may differ.
- Do not disconnect the USB storage device while it is being played.

  This may damage the product or affect the performance of the USB device.
- To remove the USB device, see Removing the USB on page 94 by rotating **MENU TUNE** (14).
- Damaged music files may be cut-off during playback or may not be played at all.
- Folder and file names are limited in length.
- Music files to which DRM (Digital Right Management) is applied cannot be played.
- This product can support USB storage devices that are up to 16 Gigabytes in capacity with a limit of 999 files, 512 folders and 10 stages of folder structure. Normal usage cannot be guaranteed for storage devices that exceed this limit.

USB

Main buttons and controls:

Information button

1. Press **INFO** (7) to view file information for the track being played.

Seek buttons

1. Press I◁SEEK or SEEK▷I (8) to play the previous or next track.
2. Press and hold to fast rewind/ fast forward through the currently playing tracks.

CD/AUX buttons

1. Press **CD/AUX** (9) repeatedly when a USB device is connected to select USB play mode.

Menu-tune button with control

1. Press **MENU TUNE** (14) to display the current selection or current mode.
2. Rotate to scroll through the track list, menu or MP3 (WMA) track information.

Back button

1. Press ⇦**BACK** (15) to cancel input content or return to the previous menu.

Connecting a USB device

1. Connect the USB to the USB port.

Note

- Once reading of the USB is complete, it will play automatically.
- If a non-readable USB is connected, an error message will be displayed and the previously used mode or FM radio will play.
- If the USB to be played is already connected, repeatedly press **CD/ AUX** (9) to select USB. Play will begin from where it previously finished.

Using the USB menu

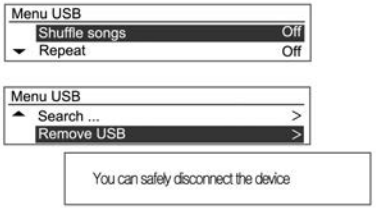
The USB menu operation is similar to the CD menu operation.

To shuffle and repeat tracks, select tracks, search folders and search the device using the USB menu, see Using the CD menu on page 87.

Disconnecting a USB device

1. Press the **RADIO BAND** (10) or **CD/AUX** (9) to select another mode.

Removing the USB



1. Press **MENU TUNE** (14) to display the USB menu.
2. Rotate **MENU TUNE** (14) to scroll to Remove USB.
3. Press **MENU TUNE** (14).

   You can safely disconnect the device is displayed.
4. Remove the USB device.

   The audio system will switch to the previously used mode or FM radio.

iPod®

Information button

1. Press **INFO** (7) to view file information for the track being played.

Seek buttons

1. Press I◁SEEK or SEEK▷I (8) to play the previous or next track.
2. Press and hold to fast rewind/ fast forward through the currently playing tracks.

CD/AUX buttons

1. Press **CD/AUX** (9) repeatedly when an iPod® is connected to select iPod® play mode.

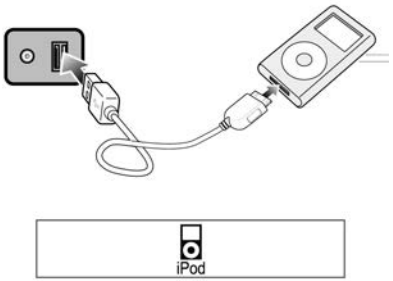
Menu-tune button with control

1. Press **MENU TUNE** (14) to display the current selection or current mode.
2. Rotate to scroll through the track list or menu.

Back button

1. Press ⇦**BACK** (15) to cancel input content or return to the previous menu.

Connecting an iPod® device



1. Connect the iPod® to the USB port.

   Note
   Only connect the iPod® with connection cables that are supported by iPod® products. Other connection cables should not be used.

Note

- Once reading of the iPod® is complete, it will play automatically.
- If a non-readable iPod® device is connected, an error message will be displayed and the previously used mode or FM radio will play.

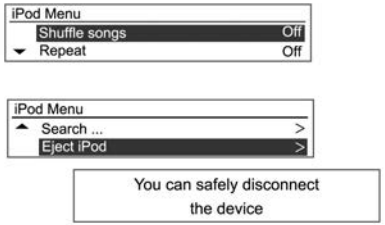
- If the iPod® to be played is already connected, repeatedly press **CD/AUX** (9) to select iPod®. Play will begin from where it previously finished.
- The playback functions and the information display items may differ from the iPod® in terms of play order, method and the information displayed.

Using the iPod® menu

The iPod® menu operation is similar to the CD menu operation.

To shuffle and repeat tracks, select tracks, search folders and search the device (including audio books and composers) using the iPod® menu, see Using the CD menu on page 87.

Disconnecting an iPod® device



1. Press **MENU TUNE** (14) to display the iPod® menu.
2. Rotate **MENU TUNE** (14) to scroll to Eject iPod.
3. Press **MENU TUNE** (14).

   You can safely disconnect the device is displayed.
4. Remove the iPod® device.

   The audio system will switch to the previously used mode or FM radio.

Bluetooth® music

General information

- A mobile phone or Bluetooth® device that supports A2DP (Advanced Audio Distribution Profile) versions over 1.2 may be paired and connected to the infotainment system. See Pairing a Bluetooth® device on page 102.
- From the mobile phone or Bluetooth® device, find the Bluetooth® device type to set/ connect the item as a stereo headset if required.
- ♪ is displayed at the bottom right of the infotainment screen, if the Bluetooth® audio device is successfully connected.
- The audio sound is delivered through the infotainment system.
- For Bluetooth® audio to play, the music must be played at least once from the phone or Bluetooth® device.

  When entering play mode a second time, play will begin automatically and will stop when the audio ends.

  Some devices may not automatically play in Bluetooth® audio play mode.
- Audio only operates with Bluetooth® devices that support AVRCP (Audio Video Remote Control Profile) version 1.0 or above.

  Depending on the Bluetooth® device options, some devices may display AVRCP connecting for the initial connection.

- Bluetooth® audio may take some time to transmit data from the mobile phone to the infotainment system.
- The infotainment system outputs the audio from the mobile phone or Bluetooth® device as it is transmitted and transmission breaks may occur.

Main buttons and controls:

Seek buttons

1. Press I◁SEEK or SEEK▷I (8) while in Bluetooth® audio play mode to play the previous or next track.
2. Press and hold to fast rewind/ fast forward through the currently playing tracks.

CD/AUX buttons

1. Press **CD/AUX** (9) repeatedly when a Bluetooth® device is connected to select Bluetooth® audio play mode.

Playing Bluetooth® audio

1. Connect the Bluetooth® device
2. Press **CD/AUX** (9) repeatedly to select Bluetooth® audio play mode.
3. Press I◁SEEK or SEEK▷I (8) to move to the previous or next track.

   Alternatively, press and hold to fast rewind/fast forward.

   Note
   Information about the playing track and track position will not be displayed on the infotainment system screen.

Personalisation

Main buttons and controls:

Configuration

1. Press **CONFIG** (12) to enter the system setup menu.

Menu-tune button with control

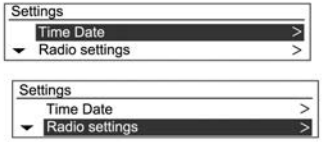
1. Press **MENU TUNE** (14) to enter the control screen for the current menu.
2. Rotate to scroll through the current list.

Back button

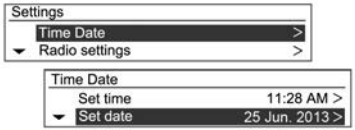
1. Press ⇦**BACK** (15) to cancel input content or return to the previous menu.

Setup menu

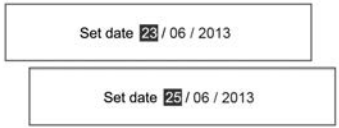
Setup time and date (example)



1. Press **CONFIG** (12) to enter the system setup menu.
2. Rotate **MENU TUNE** (14) to scroll to a setup menu.
3. Press **MENU TUNE** (14).



- A menu list for the relevant setup menu or current state is displayed.
- If there is a sub menu list, repeat Steps 2 and 3.

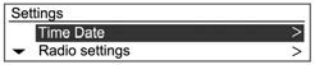


4. Rotate **MENU TUNE** (14) to go to the setup value or current state.
5. Press **MENU TUNE** (14).

Language settings

Only English may be displayed.

Time and date settings



- **Set time**: Manually set the hours and minutes for the current time.
- **Set date**: Manually set the current year/month/date.
- **Set time format**: Select 12h or 24h time display.
- **Set date format**: Set the date is display format.

  YYYY.MM.DD: 2013 Jun. 25

  DD/MM/YYYY: 25 Jun. 2013

  MM/DD/YYYY: Jun. 25, 2013

Radio settings

- **Maximum startup volume**: Manually set max. limit for the start-up volume.
- **Radio favourites**: Manually set the maximum number of favourite pages.
- **Auto volume control (Type 2)**: The volume is automatically controlled, depending on the vehicle speed.

Bluetooth® settings

- **Activation**: Select on or off.
- **Device list**: Select a device and select, connect, separate or delete.
- **Pair device**: Pair a new Bluetooth® device.
- **Change Bluetooth® code**: Manually change/set the Bluetooth® pairing code.

Restore factory settings

Restore the initial setup values back to the default settings.

Bluetooth® phone

General information

Bluetooth® allows users with a Bluetooth® enabled mobile phone to make and receive hands-free calls using the vehicle's infotainment system and controls.

The Bluetooth® enabled mobile phone must be paired to the vehicle's infotainment system before it can be used in the vehicle.

Not all phones will support all functions. For more information visit: www.holden.com.au.

Bluetooth® also allows streaming of music files from a device, if files are available. See Bluetooth® music on page 97.

⚠Warning

Do not use a mobile phone when driving.

Make sure that Bluetooth® is activated before driving. If not stop at a safe place to use a mobile phone.

Main buttons and controls:

Menu-tune button with control

1. Press **MENU TUNE** (14) when in Bluetooth® phone mode to display the menu.
2. Rotate to scroll through the menu.

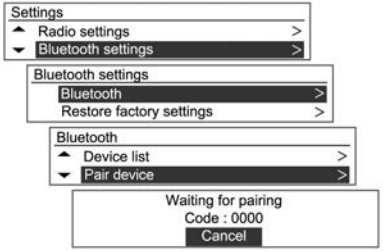
Phone/mute button

- Press ✆/🔇 (16) to select Bluetooth® phone mode.

Pairing a Bluetooth® device

- When it is not possible to connect to Bluetooth®, delete the entire device list from the Bluetooth® device to be connected, and try again. If deleting the entire device list does not work, then reinstall the device battery and reconnect.
- If there is a problem after the Bluetooth® device is connected, rotate **MENU TUNE** (14) to scroll to Restore factory settings.
- For Bluetooth® devices that do not support stereo headsets, the Bluetooth® audio play function cannot be used.
- It is not possible to listen to the music through the Bluetooth® audio if an iPhone® is connected through a USB connector.

1. Set up the Bluetooth® device to be connected from its Bluetooth® setup menu, to enable other devices to search for the Bluetooth® device.
2. Press **CONFIG** (12).



3. Rotate **MENU TUNE** (14) to scroll to **Bluetooth settings**.

   Select **Bluetooth**.

   Select **Pair device**.

4. Press **MENU TUNE** (14).

   If there already is a Bluetooth® device connected to the infotainment system:

   Bluetooth is busy is displayed.

   Connection standby is displayed with a message and a security code.

   The initial value is 0000. This can be changed:

   1. Select **Settings**.
   2. Select **Bluetooth settings**.
   3. Select **Bluetooth**.
   4. Change Bluetooth® code.

The infotainment system can be found by searching on the to be connected Bluetooth® device.

1. Select **MY CAR** on your device.
2. Enter the security code for the infotainment system through the Bluetooth® device if required.

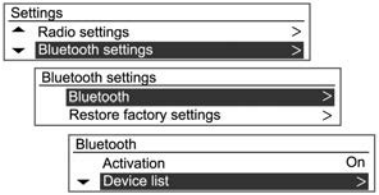
   If the pairing of the device to be connected is successful, the screen will display the information for the Bluetooth® device.

The infotainment system can register up to five Bluetooth® devices.

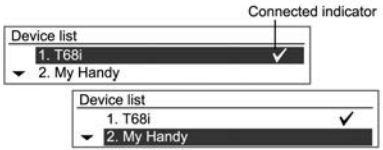
Connecting a Bluetooth® device

1. The Bluetooth® device to be connected from the Bluetooth® setup menu, must previously have been paired with the infotainment system.

   Note
   If there is a Bluetooth® device already connected, that device needs to be disconnected first.
2. Press **CONFIG** (12).



3. Rotate **MENU TUNE** (14) to scroll to **Bluetooth settings**.
4. Select **Bluetooth settings**.
5. Select **Bluetooth**.
6. Select **Device list**.



7. Rotate **MENU TUNE** (14) to select the paired Bluetooth® device to be connected.
8. Press **MENU TUNE** (14).
9. Press **MENU TUNE** (14) to select the device.

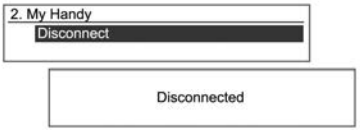
Deleting a Bluetooth® device

1. Press **CONFIG** (12).
2. Rotate **MENU TUNE** (14) to scroll to **Bluetooth settings**.
3. Select **Bluetooth settings**.
4. Select **Bluetooth**.
5. Select **Device list**.
6. Rotate **MENU TUNE** (14) to select the device to delete.
7. Press **MENU TUNE** (14).
8. Select **Delete**.
9. Press **MENU TUNE** (14) to confirm deletion.

   Device deleted is displayed.

Disconnecting a Bluetooth® device

1. Press **CONFIG** (12).
2. Rotate **MENU TUNE** (14) to scroll to **Bluetooth settings**.
3. Select **Bluetooth settings**.
4. Select **Bluetooth**.
5. Select **Device list**.
6. Rotate **MENU TUNE** (14) to select the device to be disconnected.
7. Press **MENU TUNE** (14).



8. Select **Disconnect**.
   Disconnected is displayed.

Bluetooth® error messages

- **Bluetooth® deactivated**

  Check if Bluetooth® activation is on. The Bluetooth® function can be used when turning on Bluetooth® activation.

- **Bluetooth® is busy**

  Check if there are any Bluetooth® devices connected. To connect a device, disconnect any other connected devices first, then reconnect.

- **Device list is full**

  No more than five devices can be paired.

- **No phone book available**

  This message will be displayed if the mobile phone does not support contacts transmission.

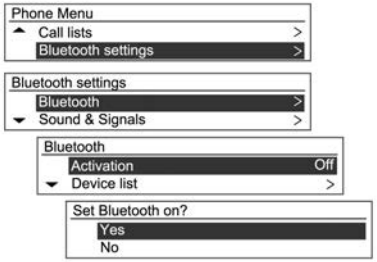
  If this message appears after several attempts, the device does not support contacts transmission.

- **Phone book is empty**

  This message is displayed if no phone numbers are stored in the mobile phone.

  This will also be displayed if the phone log transmission is supported, but in a way that is not supported by the infotainment system.

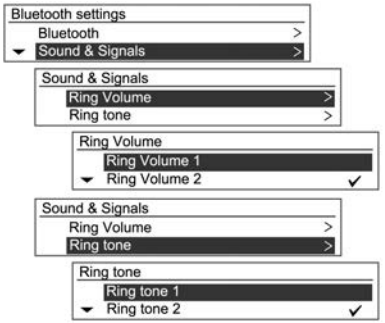
Bluetooth® settings



Setup Bluetooth® functions:

1. Ensure the Bluetooth® phone is connected.
2. Press ✆/🔇 (16) to select phone mode.
3. Press ✆/🔇 (16) to display Phone Menu.
4. Rotate and press **MENU TUNE** (14) to select **Bluetooth settings**.
5. Select **Bluetooth**.
6. Rotate **MENU TUNE** (14) to make a selection.

Sound and signals



To set up the ring tone and its volume used by the Bluetooth® function:

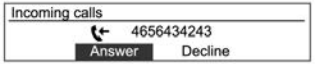
1. Press ✆/🔇 (16).
2. Rotate and press **MENU TUNE** (14) to select **Bluetooth settings**.
3. Select **Sound & Signals**.
4. Select **Ring Volume** and/or **Ring tone**.

Note

For mobile phones that transfer ring tones, the volume of the ringtone will be based on the volume transmitted from the mobile phone.

Adjust the ringtone volume of the mobile phone if necessary.

Answering calls



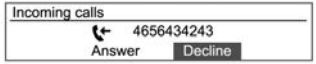
1. Press **MENU TUNE** (14).

   Alternatively, press on the steering wheel remote controls.

   Note

   - Audio transmission will stop, the phone will ring and information will display on the screen.
   - The ring tone may transfer to the infotainment system speakers depending on the mobile phone used. Adjust the volume if necessary.

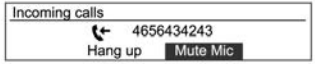
Rejecting calls



1. Rotate **MENU TUNE** (14) to select **Decline**.

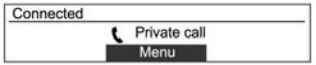
   Alternatively, press / on the steering wheel remote controls.

Muting calls



1. Rotate **MENU TUNE** (14) to select **Mute Mic**.

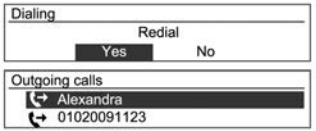
Private calls



While talking on the phone:

1. Press and hold ✆ on the steering wheel remote controls to change to private call mode (some phones may not support the private call mode).
2. Select **Private call** by using **MENU TUNE** (14).

Redialling



1. Press ✆ on the steering wheel remote controls.

   The redial guidance screen is displayed.

   Alternatively, press and hold ✆ to display the outgoing calls list on your phone.
2. Rotate **MENU TUNE** (14).
3. Select **Yes** or **Contacts**.
4. Press **MENU TUNE** (14).

   Alternatively, press ✆ on the steering wheel remote controls to make the call.

Note

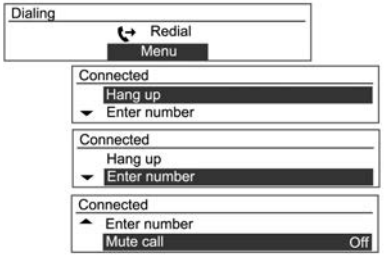
- When redialling a number, the connected phone number will not be displayed.
- Depending on the mobile phone options, the call may be made through the call history of the received or missed calls instead of the redial mode.

Ending calls

1. Rotate **MENU TUNE** (14) to select **Hang up**.

   Alternatively, press / on the steering wheel remote controls.

In call functions



While on a placed call:

1. Press **MENU TUNE** (14).
2. Rotate **MENU TUNE** (14) to select from:

   Hang up

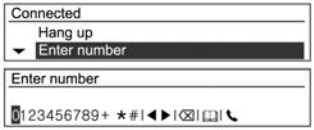
   Enter number

   Mute call

To select Private call:

3. Press and hold on the steering wheel remote controls.

Calling by entering numbers



To make a call by entering the phone number:

1. Press / (16).
2. Rotate **MENU TUNE** (14) to select **Enter number**.

3. Rotate **MENU TUNE** (14) to select the numbers/characters.
4. Press **MENU TUNE** (14) to enter the number.

   Repeat to enter all numbers.
5. Press ⇦**BACK** to delete a number one by one.

   Alternatively, press and hold ⇦**BACK** to delete all content that has been entered.

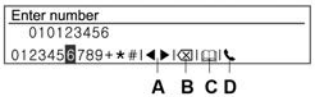
To edit the input content:

A. Move: Move input position

B. Delete: Delete input character

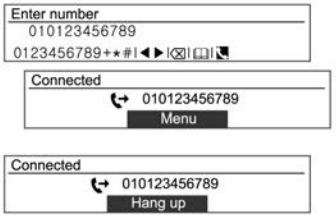
C. Phone book: Search contacts (usable after updating the phone numbers). See Updating contacts on page 112.

D. Dial: Begin dialling



After the phone number has been entered:

1. Rotate **MENU TUNE** (14) to select (D) to begin dialling.
2. Press **MENU TUNE** (14) to make a call.

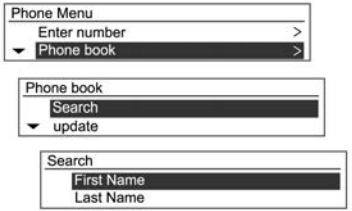


To end a call:

1. Press **MENU TUNE** (14) to select the menu.
2. Select **Hang up**.

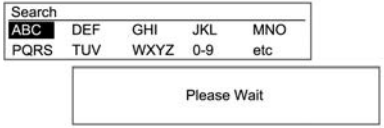
   Alternatively, press / on the steering wheel remote controls.

Using the phone book

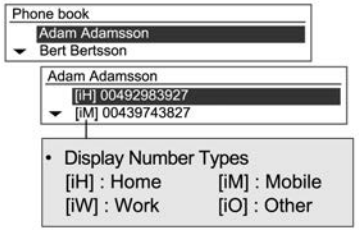


1. Press ✆/🔇 (16).
2. Select **Phone book**.

   Note
   It is necessary to update the contacts list before searching the phone book for the first time. See Updating contacts on page 112.
3. Select **Search**.
4. Rotate **MENU TUNE** (14) to select **First Name** or **Last Name**.
5. Press **MENU TUNE** (14).



6. Rotate **MENU TUNE** (14) to select **Search start point**.
7. Press **MENU TUNE** (14).



From the search results screen:

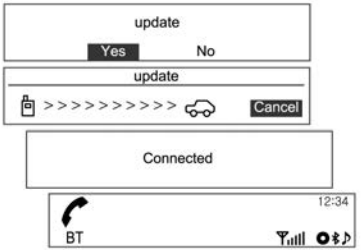
8. Rotate **MENU TUNE** (14) to make a selection.
9. Press **MENU TUNE** (14) to view details.

10. Press **MENU TUNE** (14) to make a call.

Updating contacts

To update the contacts on the mobile phone to the infotainment system contacts:

1. Press ✆/🔇 (16).
2. Select **Phone book**.
3. Select **update**.



4. Rotate **MENU TUNE** (14) to select **Yes** or **No**.
5. Press **MENU TUNE** (14) to activate or cancel the update.

Note
Hands-free and Bluetooth® audio will stop while updating contacts is in process. Other functions can be used.

Notes on updating contacts

- This function can be used with mobile phones that support contacts update and the call history transmission function.

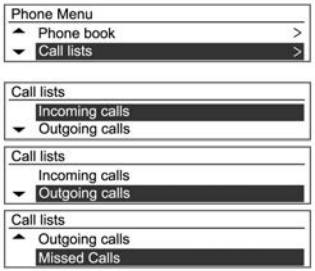
  If the infotainment system is connected to a mobile phone that does not support these functions, the call history cannot be displayed through the infotainment system.
- Updating contacts is not supported where there are more than 1,000 contact numbers.
- If there is a problem with the stored information of the mobile phone, the contacts may not be updated.
- The infotainment system only uses information coded in UTF-8 format.
- If other operations such as, game, map search, navigation, etc. are activated during contacts updating or call history transmission progress, the update/transmission process may not work.

  Do not use other functions on the mobile phone as these may affect the data transmission.
- When the contacts update or call history transmission is completed, all hands-free and Bluetooth® audio play modes will be automatically disconnected and then reconnected.
- If the infotainment system is turned off while on a call, the call will be transmitted to the mobile phone. Some phones may need to setup a call transmission function beforehand, depending on the type of phone.
- If the user disconnects the connection directly (using the infotainment or mobile phone), the auto connection function does not take place.

  Auto-connection: This function automatically finds and connects the device that was last connected.
- Not all contacts may be displayed. The infotainment system only displays what has been transmitted from the mobile phone.
- The contacts update can only receive four numbers per contacts directory (mobile phone, office, home and other).
- Changing the language setup during the contacts update will delete all previous updates.
- If the Operating System (OS) of the mobile phone is updated, it may change how the phone's Bluetooth® function works.

- Special characters and unsupported languages will be displayed as "_ _ _ _".
- Calls registered in contacts without any name will be indicated as **No number in contac**t.
- The infotainment system will display contacts, call history, and redial information as it is transmitted from the mobile phone.

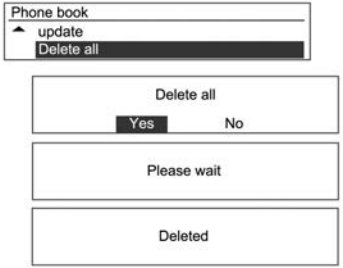
Call lists



1. Press ✆/🔇 (16).
2. Select **Call lists**.
3. Rotate and press **MENU TUNE** (14) to make a selection.

4. Rotate **MENU TUNE** (14) to select the number to be dialled.
5. Press **MENU TUNE** (14) to call the selected number.

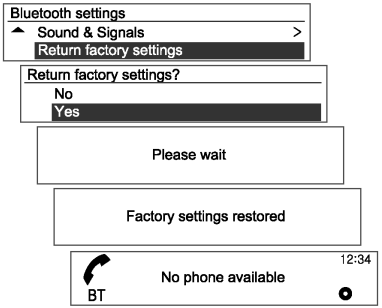
Delete all contacts



Note
All numbers stored in the infotainment system contact list will be deleted.

1. Press ✆/🔇 (16).
2. Select **Phone book**.
3. Select **Delete all**.
4. Select **Yes** or **No**.
5. Press **MENU TUNE** (14) to confirm.

Restore factory settings



To reset the Bluetooth® setting to the default values:

1. Press ✆/🔇 (16).
2. Select **Bluetooth settings**.
3. Select **Restore factory settings?**
4. Select **Yes** or **No**.

Climate control

Air conditioning system..... 116
Air vents..... 119
Maintenance..... 120

Air conditioning system

⚠Danger

Do not sleep with the air conditioning or heating system on.

Serious harm or death may occur due to a drop in oxygen level and/or body temperature.

Controls

- Air recirculation
- Temperature
- Heated rear window
- Air distribution
- Demisting
- Defrosting
- Cooling
- Fan speed

Temperature

Rotate the temperature switch:

Red: warm

Blue: cold

Mode

Select an air outlet by rotating the switch. Air is directed:

- : To the instrument panel vents.
- : To the instrument panel vents and floor vents.
- : To the floor vents. A small amount of air is directed to the windscreen, outer instrument panel vents and side window demist vents.
- : Between the windscreen and floor vents, some to the outer instrument panel vents and side window demist vents.
- : To the windscreen and side window demist vents, with a small amount of the air to the outer instrument panel vents.

Fan

Rotate the fan speed switch to the desired speed, between **0** and **4**.

Recirculation

- Press .

  The light in the button illuminates.

Note

- Recirculation reuses interior air so is not recommended for long periods of time.
- Do not use recirculation if occupants are smoking.

Air conditioning

1. Turn the ignition on.
2. Press .

   The light in the button illuminates.
3. Rotate the temperature switch to within the blue zone.
4. Rotate the mode switch to select an air outlet.
5. Adjust the angle of the air vents.
6. Rotate the fan speed switch to the desired speed.

Note

- To conserve fuel, the air conditioning can be switched off in cold weather.
- Warm air will be directed to the air outlets if the temperature switch is in the red zone, even when is pressed.
- Have any faults repaired by a Holden Dealer.

Maximum cooling

Use maximum cooling for quick cooling of the passenger compartment.

1. Turn the ignition on.
2. Press .
   The light in the button illuminates.
3. Press .
4. Rotate the temperature switch to cold air.
5. Rotate the mode switch to or .
6. Adjust the angle of the air vents.
7. Rotate the fan speed switch to **4**.

Windscreen demister

1. Rotate the mode switch to .
2. Rotate the temperature switch to the desired temperature.
3. Rotate the fan speed switch to the desired speed.
4. Open the side air vents and direct towards the door windows.

Off

Rotate the fan speed switch to **0** to switch off all heating, ventilation and cooling.

Rear window demister

1. Turn the ignition key to the ON position.
2. Press to switch on or off.

   The light in the button illuminates when on.

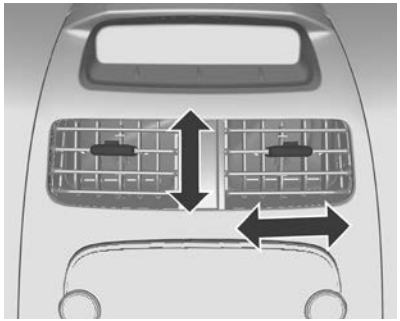
   Heating is switched off automatically after approximately a few minutes.

   Note
   Whenever the rear window demister is switched on, the rear view mirror heaters turn on.

Caution
Do not use sharp objects or abrasive window cleaners on the rear window. Do not scratch or damage the wires when cleaning.

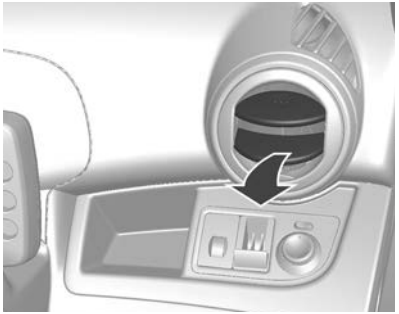
Air vents

Adjustable air vents



Direct the air flow by tilting the vents.

Note
At least one air vent must be open while the air conditioning is on.



1. To open, press in the cover.
2. Rotate the vent to the desired direction.
3. To close, press the cover.

⚠Warning

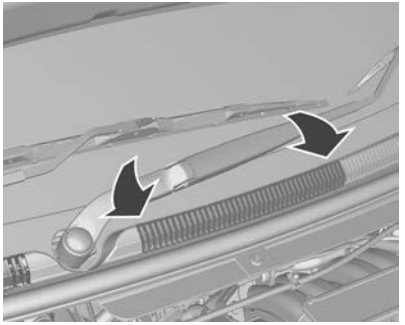
Do not attach objects to the vents. Damage or injury may occur.

Fixed air vents

Fixed air vents are located beneath the windscreen, front door windows and in the footwells.

Maintenance

Air intake



Outside air is drawn into the vehicle through the opening between the bonnet and the windscreen.

Keep the area clear of debris.

Pollen/dust filter

The passenger compartment air filter filters contaminants such as pollen and dust from entering the vehicle.

Caution

Have the passenger compartment air filter replaced if driving frequently on dusty and unpaved roads or polluted areas.

Regular operation

Switch air conditioning on for at least 5 to 10 minutes once every two weeks to lubricate the system, even in winter.

Water

Water condensation can leave traces of clear water on the ground underneath the vehicle.

Service

Have the air conditioning serviced at the frequency shown in the Maintenance schedule, in the Service/Warranty Booklet.

Driving and operating

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Starting and operating 121
Automatic transmission 125
Manual transmission.....130
Brakes 131
Ride control systems 132
Fuel.....134

Driving information

Before entering the vehicle

Check that windows, mirrors and lamps are clean.

Visually check tyre inflation. Check tyre pressures weekly.

Before driving off

1. Close and secure all doors.
2. Position the seat for comfortable driving.
3. Adjust rear view mirrors.
4. Fasten seat belts.
5. Check that warning indicators illuminate when turning the ignition on. See Warning lights, gauges and indicators on page 49.

Starting and operating

New vehicle running-in

Use the following precautions to improve performance:

- Do not make full throttle starts.
- Avoid downshifting to brake or slow the vehicle.
- Avoid hard stops except in emergencies to avoid premature wear and early replacement of brakes.
- Avoid heavy acceleration and prolonged highspeed driving to avoid damage to the engine and to conserve fuel.

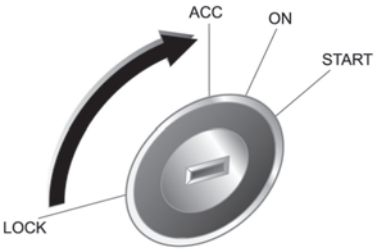
Brakes

- Do not let the vehicle run down hills, or coast with the engine off, as the power assistance does not operate.
- Ensure that there are no obstructions which could limit brake pedal use.
- Continuous or heavy use of brakes will shorten the life of the brake pads.

Power steering

- The power steering fitted to the vehicle has been designed to reduce steering effort.
- Do not turn and hold the steering wheel in the fully turned position when stationary.
- If power steering is not working, due to the engine stalling for example, the vehicle can still be steered.

Ignition positions



⚠Warning

Do not turn the engine off while the vehicle is moving as there will not be any power assist for brakes or steering.

Never remove the key while the vehicle is moving, as this will lock the steering.

LOCK: When the key is in this position, some electrical accessories and the engine are off.

The key can only be inserted and removed from this position.

The engine is automatically disabled shortly after removing the key from the ignition.

The steering wheel is automatically locked when the key is removed.

To release the steering lock, re-insert the key and turn it towards the front of the vehicle. If still locked, turn the steering wheel slightly to the right or left while turning the key towards the front of the vehicle.

ACC**:** When the key is in this position, the audio system operates.

ON: When the key is in this position, the engine is ready to start and all electrical systems are active.

Warning lamps will illuminate. See Warning lights, gauges and indicators on page 49.

Do not leave the switch in the ON position for a long time, unless the engine is running, otherwise the vehicle's battery will discharge.

START: Turn the key to this position and release when the engine is running.

Starting the engine

1. Apply the park brake firmly.
2. Automatic transmission: Move the shift lever to the park or neutral position.

   Manual transmission: Push the clutch pedal to the floor and move the shift lever to the neutral position.
3. Start the engine.

   The engine starts automatically.

   The key automatically returns to the ON position.
4. Manual transmission: Release the clutch pedal slowly.

Notes

- Do not depress the accelerator pedal while starting the engine.
- Do not subject the engine to full throttle acceleration or high speeds until it has reached normal operating temperature. Premature engine wear or damage may result.

Parking

1. Apply the park brake.
2. Automatic transmission: Select position **P**.

   Manual transmission: If facing uphill or on flat ground, select 1st gear. If facing downhill, select reverse gear.

   On an uphill slope, turn the front wheels away from the kerb.

   On a downhill slope, turn the front wheels towards the kerb.
3. Shut all windows.
4. Turn the ignition off and remove the key.
5. Press on the key to lock all doors. See Keys and locks on page 15.

⚠Warning

Be careful where you park or drive. As with any vehicle, do not park or operate the vehicle in areas where combustible materials such as dry grass or leaves can come in contact with a hot exhaust system.

Exhaust gases are hazardous, especially if they concentrate in closed rooms.

Never leave the engine running in an enclosed space such as a closed garage or underground car park.

Engine exhaust

Catalytic converter

The catalytic converter reduces the amount of harmful substances in the exhaust gas.

Caution

Use of low quality fuel or fuel with too low an octane number may damage the engine, the catalytic converter or electronic components.

Unburnt petrol will overheat and damage the catalytic converter. Therefore avoid excessive use of the starter, running the fuel tank dry and starting the engine by pushing or towing.

If the engine misfires, runs unevenly, engine performance is reduced or other problems occur, contact a Holden Dealer as soon as possible.

In an emergency, drive for a short period, keeping the vehicle and engine speed low.

Automatic transmission

The automatic transmission is an electronically controlled four-speed transmission.

Starting the vehicle

1. Press the brake pedal while moving the shift lever to either the **R**, **D**, **I** or **L** position.

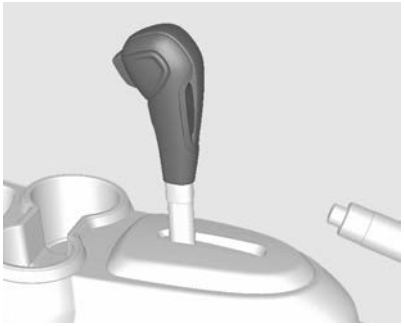
Caution
Do not shift between D (drive) and R (reverse) or P (park) while the vehicle is moving.

2. Release the park brake and the brake pedal.
3. Slowly press the accelerator pedal.

Transmission display

The selected gear is indicated in the instrument cluster.

Shift lever



P: (park) In park position, the front wheels are locked. Select **P** only when the vehicle is stationary and the park brake is applied.

R: (reverse) Place in reverse only when the vehicle is stationary.

N: (neutral)

D: (drive) Used for general driving. Allows the transmission to be shifted into any of the four forward gears.

I: (intermediate) Allows the transmission to shift from 1st to 2nd gear and prevents automatic shifting into 3rd or 4th gear.

Select **I** for more power when climbing hills and for engine braking when driving down steep hills.

L: (low) This position locks the transmission in 1st gear.

Select **L** for maximum engine braking when driving down severe grades.

Caution

Do not accelerate while engaging a gear.

Never depress the accelerator pedal and brake pedal at the same time.

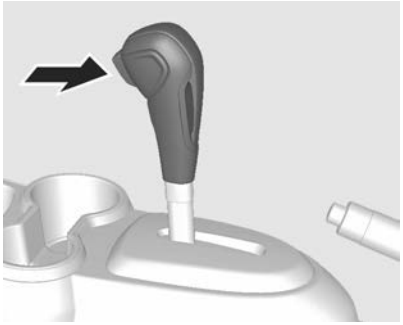
When a gear is engaged, the vehicle slowly begins to creep when the brake is released.

Do not use the **P** (park) position in place of the park brake.

Turn off the engine, apply the parking brake and remove the ignition key when leaving the vehicle.

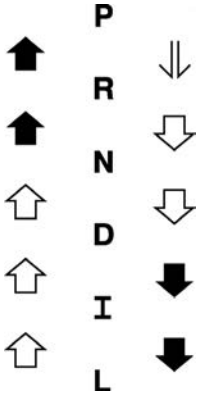
Never leave the vehicle unattended while the engine is running.

Shifting between gear positions



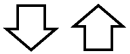
Movement between certain gear positions requires pressing the release button on the front of the selector lever.

Follow the descriptions as indicated by the arrows when shifting the shift lever.



Press the release button to select a gear.

Push the brake pedal and press the release button to select a gear.



Shift freely to select a gear.

Engine braking

To utilise the engine braking effect, select **I** or **L** when driving downhill, if necessary.

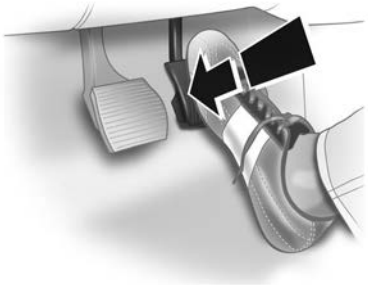
Engine braking is most effective in drive range **L**. If drive range **L** is selected at too high a speed, the transmission remains in the current gear until the vehicle slows down.

Select drive range **I** for ordinary engine braking effect. For greater engine braking effect, select **L**.

Note

Use of engine compression during long mountainous descents may prolong the life of your brakes.

Kickdown



For faster acceleration:

- Press the accelerator pedal all the way down and hold.

  The transmission shifts to a lower gear depending on the engine speed.

Neutral idle control

This feature is designed to reduce fuel consumption when idling and stationary.

When idling in a forward gear while the brake pedal is pressed, the transmission switches into neutral. When the brake is released, the transmission switches back to the selected forward gear.

Fault

In the event of a fault, ⚙ warning light illuminates. The transmission no longer shifts automatically or manually because it is locked in a certain gear.

Contact a Holden Dealer.

Interruption of power supply

If the power supply is interrupted, the shift lever cannot be moved out of the P position.

If the battery is discharged, start the vehicle using jump leads. See Jump starting on page 177.

If the battery is not the cause of the fault, release shift lever and remove the ignition key from the ignition lock.

Release shift lever

This vehicle is equipped with a shift lock control. The shift lock control is designed to:

- Prevent ignition key removal unless the shift lever is in P (park) with the shift lever button fully released.
- Prevent movement of the shift lever out of P (park) unless the ignition is in ON/RUN and the brake pedal is applied.

The shift lock control is always functional except in the case of a discharged battery.

To shift out of P (park):

1. Apply the brake pedal.
2. Turn the ignition to ON/RUN.
3. Press the shift lever button.
4. Move the shift lever to the desired position.

If still unable to shift out of P (park):

1. Fully release the shift lever button.
2. Hold the brake pedal down and press the shift lever button again.
3. Move the shift lever to the desired position.

If the shift lever still cannot be moved from P (park), see Shift lock manual release.

Shift lock manual release

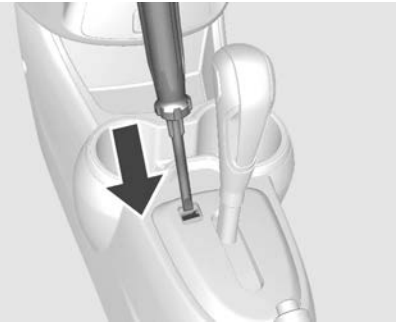
The automatic transmission has an electric park lock. The key must be in the ON/RUN position and the brake pedal pressed so that the shift lever can be moved from the P (park) position.

If the battery has discharged, the shift lever cannot be moved from P (park) unless the shift lock manual release is disengaged manually.

To access the shift lock manual release:

1. Apply the park brake.

2. Open the cover to the left of the shift lever.



3. Insert a flat-blade screwdriver into the opening as far as it will go and move the shift lever out of P (park).

   If P (park) is selected again, the shift lever will be locked again. Have the cause of the problem fixed by a Holden Dealer.
4. Close the cover.

Caution

To help prevent damage to the transmission, observe the following precautions.

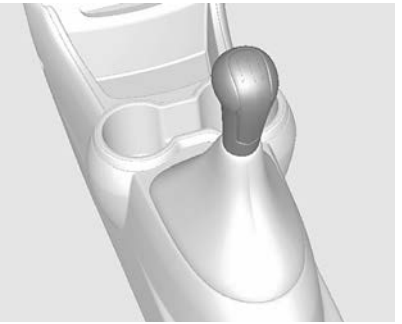
Do not press the accelerator pedal while shifting from P or N to R, D, I or L. Use D as much as possible.

Never shift to P or R while the vehicle is in motion.

When stopping the vehicle on an uphill grade, do not hold the vehicle in place by pressing the accelerator pedal. Use the foot brake.

Press the brake pedal when shifting from P or N to R or a forward gear.

Manual transmission



- When shifting from one gear to another, push the clutch pedal to the floor.
- Do not engage reverse gear while the vehicle is still moving.
- Pause between pressing the clutch pedal and moving into reverse gear.
- Whenever reverse gear is selected with the ignition on, the reverse lamps illuminate.
- Do not drive with your foot resting on the clutch pedal.
- When stopped on an incline, do not hold the vehicle stationary using the clutch. Use the park brake or foot brake.
- Shift to a lower gear when climbing steep grades, before the engine starts to labour.
- Shift to a lower gear before descending steep grades.
- Do not over rev the engine when shifting to a lower gear.

Brakes

The brake system comprises two independent brake circuits.

If one brake circuit fails, the vehicle can still be braked using the other brake circuit. However, braking effect is achieved only when the brake pedal is depressed firmly. Considerably more force is needed for this. The braking distance is extended. Contact a Holden Dealer.

⚠Warning

After driving through deep water, washing the vehicle or using the brakes excessively such as when descending a steep hill, the brakes can temporarily lose their stopping power. This may be due to wet brake components or overheating.

Shift to a lower gear when going down hills. Do not continuously apply the brakes.

To dry out the brakes:

- Ensure there is a clear area ahead.
- Lightly apply the brakes.
- Maintain a slow forward speed until performance returns to normal.

Antilock Brake System (ABS)

The ABS:

- Continuously monitors the vehicle's braking system preventing the wheels from locking up.
- Allows maximum braking effort while full steering control is retained, even in the event of panic braking.

⚠Warning

Do not let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by adopting a responsible driving style. You should always adjust the vehicle's speed to suit road and traffic conditions. Always maintain an adequate distance to the vehicle in front of you.

Operation

ABS operation is noticeable by pulsing of the brake pedal and the noise of the regulation process.

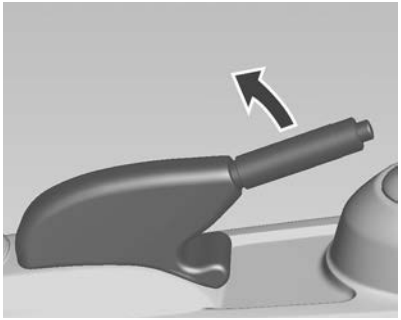
The initial self-check may also be audible.

Keep the brake pedal fully pressed throughout the braking process, without pumping it.

Caution

If there is a malfunction with the ABS, the vehicle's brake system remains operational, but without ABS assistance. Have a Holden Dealer check the system as soon as possible.

Park brake



Applying the park brake:

1. Pull the lever straight up, without pressing the release button.

Releasing the park brake:

1. Pull the lever slightly upwards.
2. Push in the release button on the top of the lever and lower the lever all the way down.

⚠Warning

Never drive the vehicle with the park brake applied.

Ride control systems

Traction Control System (TCS)

TCS improves driving stability when necessary, regardless of the type of road surface or tyre grip, by preventing the driving wheels from spinning.

As soon as the driving wheels start to spin, engine output is reduced and the wheels are braked individually. This considerably improves the driving stability of the vehicle on slippery road surfaces.

TCS is activated as soon as the ignition is turned on.

⚠Warning

Do not let this special safety feature tempt you into taking risks when driving.

Adapt speed to the road conditions.

Deactivation (Automatic transmission)

TCS can be deactivated on automatic transmission vehicles when spinning of drive wheels is required:

1. Press OFF

   illuminates

To reactivate TCS:

1. Press OFF again

   TCS is also reactivated the next time the ignition is turned on.

Electronic Stability Control (ESC)

The ESC:

- Improves driving stability in any driving situation.
- Assists in maintaining vehicle stability when the vehicle's grip level is exceeded such as a sudden lane change, slippery or unexpected road conditions.
- Alters engine power and/or braking on specific wheels, improving the vehicle's steering control and power delivery, on wet or slippery roads, particularly on snow and ice.

⚠Warning

Do not let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by adopting a responsible driving style. The vehicle's speed should always be adjusted to suit road and traffic conditions.

Activation

- The ESC is automatically switched on each time the engine is started.
- The ESC is operational as soon as OFF extinguishes.
- OFF flashes while the ESC is actively helping the vehicle with road grip and stability.

Deactivation

In certain circumstances, it may be helpful to disable the ESC, e.g. on steep gravel inclines, or if the vehicle is bogged. It may be possible to get more traction from a slightly spinning wheel.

Automatic transmission:

1. Press OFF for more than 5 seconds.

   OFF illuminates on the instrument cluster.

   The ESC is reactivated by pressing OFF again.

Manual transmission:

1. Press OFF.

   OFF illuminates on the instrument cluster.

   The ESC is reactivated by pressing OFF again.

Fuel

⚠Danger

EXHAUST WARNING – CARBON MONOXIDE POISONING

Exhaust gases can produce carbon monoxide, a dangerous gas, which can cause unconsciousness and even death to both humans and animals.

Gases could be inhaled if the exhaust system on your vehicle is faulty.

To protect against exhaust gases entering the vehicle, the exhaust system and body should be inspected:

- Each time the vehicle is serviced.
- Whenever a change is noticed in the sound of the exhaust system.
- Whenever the exhaust system, underbody or rear of the vehicle is damaged.

Take the vehicle to a Holden Dealer if you think the vehicle needs inspecting for any of the above reasons.

Do not sit (or leave children or pets) in a parked vehicle for any extended period of time with the engine running. Do not run the engine in an enclosed area (such as the garage) any longer than is needed to move the vehicle.

Driving with the tailgate open is not recommended. If you must travel with the tailgate open, close all windows, ensure that the heater controls are set to outside (rather than recirculate) with air directed to the face and the fan on the highest speed. Do not exceed 50 km/h.

⚠Warning

FUEL

Fuel is extremely flammable and highly explosive.

Always switch off the engine of the vehicle and any mobile phones when refuelling.

Do not smoke or allow open flames or sparks near the vehicle when refuelling.

If fuel fumes are smelt while driving, the cause should be found and corrected without delay by a Holden Dealer.

Caution

FUEL ADDITIVES

Various additives are used in the formulation of good quality fuel and the use of supplementary additives in fuel is not required unless specified by Holden. Under no circumstances should fuel containing the manganese additive known as MMT (methyl cyclopentadienyl manganese tricarbonyl) be used, as this additive is known to cause contamination of catalytic converters, spark plugs and the malfunction of On-Board-Diagnostic (OBD) systems. The use of fuel additives that are not recommended by Holden may affect your New Vehicle Voluntary Warranty to the extent that Holden considers that the additives affect the specifications and quality of the vehicle.

Caution

USE OF FUEL CONTAINING ETHANOL

When purchasing such fuel, we recommend that the vehicle be operated on fuel containing no more than 10% ethanol.

Under no circumstances should fuel containing more than 10% ethanol be used. Use of such fuels may result in engine malfunction, starting and operating difficulties and materials degradation. These adverse effects could result in permanent damage to the vehicle and personal injury. It is also important to note that when ethanol blends are used, fuel consumption can be expected to increase due to the lower energy content of ethanol.

The use of fuel containing more than 10% ethanol may also affect your New Vehicle Voluntary Warranty to the extent that Holden considers that the fuel affects the specifications and quality of your vehicle.

The use of any fuel, other than the fuel specified below, may seriously damage the vehicle and may void the warranty. Only clean fuel of good quality should be used.

Fuel type

Use unleaded petrol of regular 91 Research Octane Number (RON) rating or higher.

Use of Premium unleaded petrol (95 RON or higher) may provide a small improvement in performance and fuel economy.

Refuelling

Always fill the fuel tank at the intermediate or fast fill rate. Do not add any more fuel after the fuel filler first clicks off or fuel blows back. This allows room for the fuel to expand inside the tank.

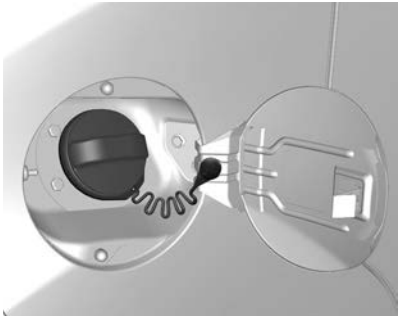
Wipe off any overflowing fuel immediately from the vehicle. Replace the fuel cap and close the fuel opening then spray or splash with water.

1. Stop the engine.

The fuel filler door release lever is located on the driver side floor:

2. Pull the lever.
3. Open the fuel filler door.
4. Turn the fuel filler cap slowly anticlockwise.

   If a hissing sound is heard, wait for it to stop before completely unscrewing the cap.



5. Remove the cap.

   The cap is tethered to the vehicle.
6. After refuelling, replace the cap by turning clockwise through several clicks.
7. Push the fuel filler door closed until it latches.

Note
If in cold weather, the fuel filler door does not open, tap the door lightly.

Tank capacity

See Capacities on page 192.

Vehicle care

General information 138
Vehicle checks 140
Bulb replacement 151
Electrical system 157
Vehicle tools 165
Wheels and tyres 165
Jump starting 177
Towing 179
Appearance care 181

General information

Where specified, use only Holden genuine parts and accessories.

Emission information

The emission control systems are designed to reduce the amount of hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) that are emitted from the engine and fuel system into the atmosphere. HC and NOx, when exposed to sunlight under certain conditions, contribute to photochemical smog. In addition, CO is toxic when it becomes highly concentrated in the air.

Emission control system

Major emission control systems that the vehicle may have are:

1. Evaporative emission control system. This system is designed to prevent the escape of fuel vapour from the fuel system and recycle the vapours through the normal combustion process.
2. Crankcase emission control system. This system is designed to prevent blow-by gases from escaping into the atmosphere and recycle them through the combustion process.
3. Exhaust emission control system. The various components of this system operate collectively to limit HC, CO and NOx emissions in the exhaust gas. The exhaust emission control system consists of components including electronic control of spark, fuel and idle speed. In addition vehicles have a catalytic converter and closed loop mixture control system.

It is recommended that service and repair to fuel or emission systems be carried out by an authorised Holden Dealer.

Owner responsibility

The engine, engine control system and exhaust system of the vehicle must NOT be modified in any way.

⚠Warning

Any person who removes, modifies or hinders any part of the emission control system may be contravening Australian Design Rules. It is also illegal to drive a vehicle modified in this way.

Maintenance requirements

Have the vehicle serviced at the frequency shown in the Maintenance schedule, in the Service/Warranty Booklet.

It is recommended that servicing be carried out by an authorised Holden Dealer who will maintain the vehicle's emission control system as per the Service/Warranty Booklet.

It is recommended that all fluid levels are checked weekly.

Vehicle storage

If the vehicle is to be stored for several months:

- Wash and wax the vehicle.
- Clean and preserve rubber seals.
- Change engine oil.
- Drain the washer fluid reservoir.
- Check coolant and corrosion protection.
- Adjust the tyre pressure to the value specified for a full load.
- Park the vehicle in a dry, well ventilated place.
- Place the shift lever in P (park) to prevent the vehicle from moving.
- Do not apply the park brake.
- Open the bonnet, close all doors and lock the vehicle.

  Disconnect the clamp from the negative terminal of the vehicle battery.

  Close the bonnet.

Before returning the vehicle to the road:

- Connect the clamp to the negative terminal of the vehicle battery.

  Check the power windows operation.
- Check the tyre pressures.
- Fill the washer fluid reservoir.
- Check the engine oil level.
- Check the coolant level.

Vehicle checks

Doing your own service work

⚠Warning

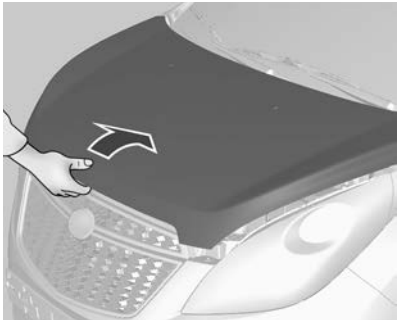
Do not touch engine compartment components when the ignition is on due to extremely high voltages.

Note
The cooling fan may still operate when the ignition is off.

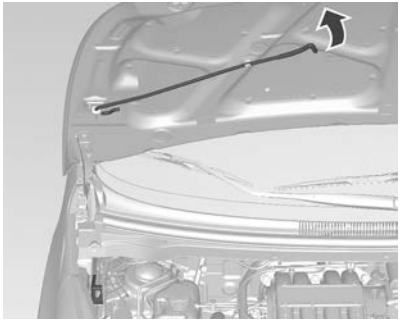
Bonnet

Opening

1. Pull the lever towards you.



2. Push up on the safety catch.



⚠Warning

When the engine is hot, only touch the foam padding of the support rod.

3. Pull the support rod away from the bonnet holder.
4. Rotate down and place into the catch alongside the engine compartment.

Closing

⚠Warning

To avoid injury and/or damage to the vehicle, check each time, before the bonnet is closed, that the contact area is unobstructed.

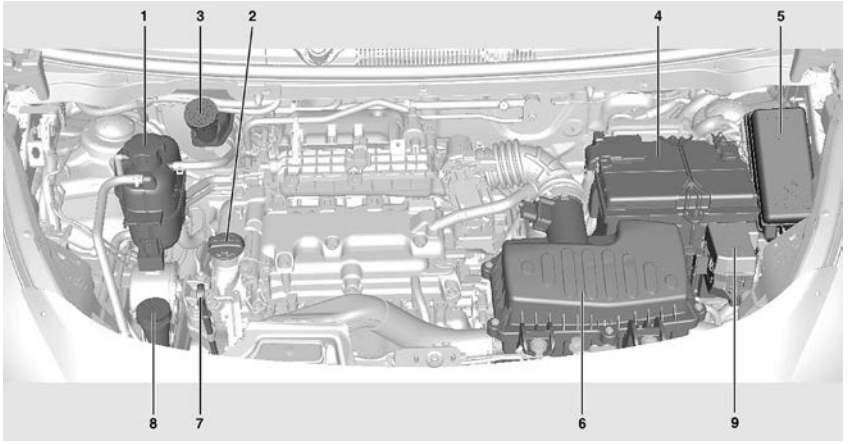
1. Place the support rod into the bonnet holder.
2. Lower the bonnet and allow it to drop into the catch.
3. Check that the bonnet is engaged.

⚠Warning

If while driving you notice that the bonnet has not been properly closed, pull the vehicle over to the side of the road at the earliest possible moment and close the bonnet correctly.

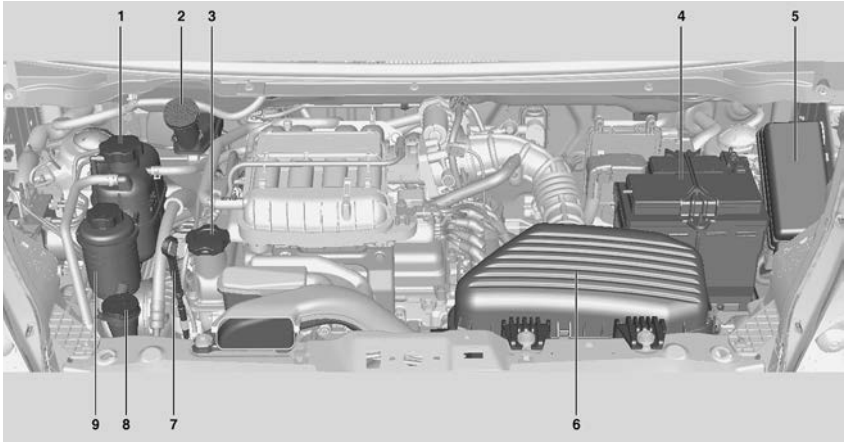
Engine compartment overview

(Automatic transmission)



1. Engine coolant reservoir, see page 146
2. Engine oil reservoir, see page 144
3. Brake fluid reservoir, see page 148
4. Battery, see page 150
5. Fuse box, see page 157
6. Engine air filter, see page 145
7. Dipstick for engine oil, see page 144
8. Washer fluid reservoir, see page 148
9. Auxiliary fuse box, see page 158

(Manual transmission)



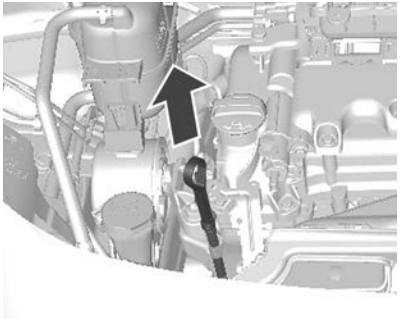
1. Engine coolant reservoir, see page 146
2. Brake/clutch fluid reservoir, see page 148
3. Engine oil reservoir, see page 144
4. Battery, see page 150
5. Fuse box, see page 157
6. Engine air filter, see page 145
7. Dipstick for engine oil, see page 144
8. Washer fluid reservoir, see page 148
9. Power steering fluid reservoir, see page 147

Engine oil

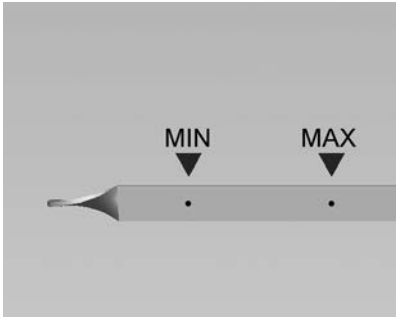
Checking oil level

- Check the engine oil level before a long journey.
- The engine must be at operating temperature and the ignition turned off for at least 5 minutes.

1. Park the vehicle on a level surface.
2. Remove the dipstick and wipe clean.
3. Insert the dipstick firmly.



4. Remove and read the oil level.

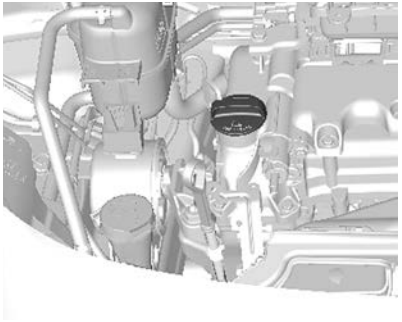


The level should be at the **MAX** mark. Add oil if the level is at the **MIN** mark.

5. Insert the dipstick to the stop on the handle and rotate half a turn.

Adding engine oil

See Capacities on page 192.



1. Rotate the engine oil filler cap anticlockwise and remove.
2. Add enough oil to reach below the **MAX** mark on the dipstick.
3. Check the level on the dipstick and add further oil if necessary.

   The engine oil must not exceed the **MAX** mark on the dipstick.

Caution
Overfilled engine oil must be drained or suctioned out.

4. Replace the engine oil filler cap tightly by rotating clockwise.

Note

Non-detergent and other low quality oils, the use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended. Their use increases costs, may be detrimental to the operation of the vehicle and may void the New Vehicle Voluntary Warranty, to the extent that Holden considers the non-recommended fluid to have affected the specifications or quality of the vehicle.

⚠Danger

Engine oil is an irritant and if ingested, can cause illness or death.

Keep out of reach of children.

Avoid repeated or prolonged contact with skin.

Wash exposed areas with soap and water or hand cleaner.

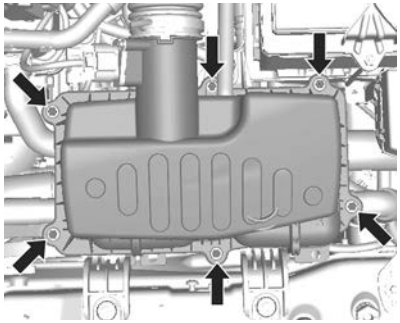
Be careful when draining the engine oil as it may be hot.

Engine oil change intervals

Refer to the Service/Warranty Booklet. For Automatic transmission vehicles, also refer to Engine oil life system on page 185.

Engine air filter

(Automatic transmission)



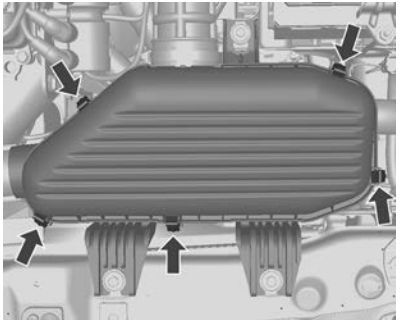
Filter cover removal

1. Remove the six screws.
2. Lift off the cover.
3. Replace the filter.
4. Replace the cover and tighten the six screws.

Caution

Do not operate the vehicle without the filter installed. Engine damage may occur.

(Manual transmission)



Filter cover removal

1. Loosen the cover attaching clips.
2. Open the cover.
3. Replace the filter.
4. Lock the cover with the cover attaching clips.

Caution
Do not operate the vehicle without the filter installed. Engine damage may occur.

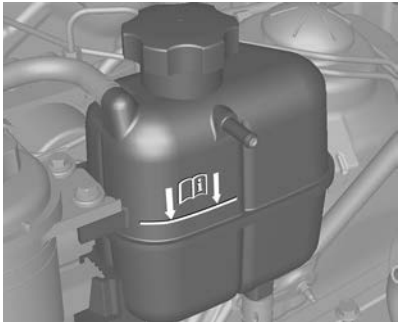
Engine coolant

Engine coolant level

Check the coolant level at least once a week.

Checking coolant level

⚠Warning
Do not remove the radiator cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.



If the cooling system is cold, the coolant level should be above the line on the coolant reservoir.

Adding coolant

Caution
If the coolant level is too low, engine damage may occur. Do not spill coolant on the vehicle's exterior surfaces as it can damage the paintwork. If you do, wash it off immediately.

Note
Use only approved coolant. See Recommended fluids, lubricants and parts on page 187.

1. Turn the ignition off.
2. Remove the coolant reservoir cap.
3. Add the required amount of coolant.
4. Replace the cap securely.

   If the coolant requires regular topping up, contact a Holden Dealer

⚠Warning

Avoid repeated or prolonged contact with coolant.

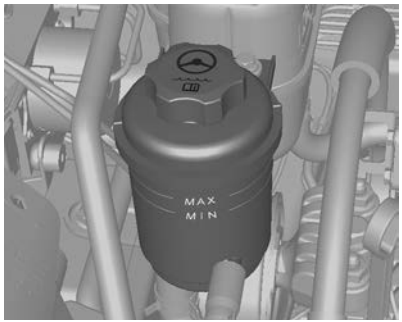
Wash off with soap and water.

Keep out of reach of children.

Power steering fluid

(Manual transmission)

Adding power steering fluid



The power steering fluid level must be between the **MIN** and **MAX** marks.

Use only Holden specified power steering fluid. See Recommended fluids, lubricants and parts on page 187.

1. Turn the ignition off.

Caution

Extremely small amounts of contamination can cause steering system damage and cause it to not work properly.

Do not allow contaminants to contact the fluid side of the reservoir cap/dipstick or to enter the reservoir.

2. Rotate the power steering fluid reservoir cap anticlockwise and remove.
3. Add the required amount of power steering fluid.

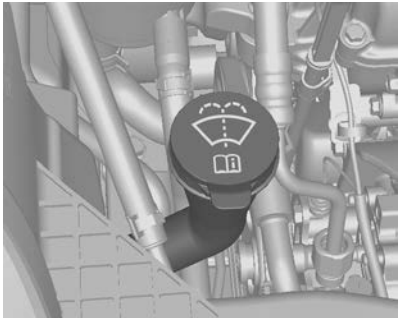
   Do not overfill the reservoir.

If the power steering fluid requires regular topping up, contact a Holden Dealer.

Caution

Do not operate the vehicle without the required amount of power steering fluid. Damage to the power steering system may occur.

Washer fluid



Check the fluid level weekly.

Adding washer fluid

1. Lift the front of the cap up.

   Use the correct amount of washer fluid additive. Refer to a Holden Dealer.

   Do not use ordinary soap or detergent as they froth up and damage the wiper rubbers.
2. Secure the cap.

Brake/clutch fluid

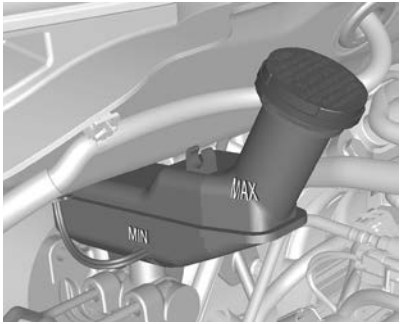
⚠Warning

Brake fluid is poisonous and corrosive and will damage the paint finish of the vehicle if spilt.

Caution

Avoid contact with eyes and skin. Wash any affected area immediately.

Checking brake/clutch fluid level



Check the brake fluid level weekly.

The level should be between the **MIN** and **MAX** area.

If the fluid level is correct, do not remove the reservoir cap, as brake fluid exposed to the atmosphere will quickly absorb moisture.

Adding brake fluid

See Recommended fluids, lubricants and parts on page 187.

1. Turn the ignition off.
2. Wipe the sides of the cap clean.
3. Rotate the brake/clutch fluid reservoir cap anticlockwise and remove.
4. Top up with the recommended brake fluid.

⚠Warning

Using brake fluid other than GM recommended brake fluid may cause corrosion to components of the braking system and reduced braking performance.

Use only new brake fluid. Use of old, used or inferior brake fluid may endanger the functioning of the brake system.

5. Secure the cap and clean up any spilt fluid.

If the brake/clutch fluid requires regular topping up, contact a Holden Dealer immediately.

Caution

Do not dispose of used brake fluid with household waste.

Use the local, authorised waste management facility.

Battery

⚠Warning

Batteries emit an explosive gas mixture which may be ignited. Therefore, you should keep sparks and flames away from the battery at all times. Never smoke near a battery.

Batteries contain sulphuric acid. If acid contacts skin or clothing, flush immediately with plenty of water. In case of eye contact, flush with plenty of water and contact a doctor immediately. Battery acid also damages paint and fabrics. To minimise damage, wash off immediately.

Keep batteries out of the reach of children.

Take care with all metal objects and tools including items you may wear (for example jewellery, rings and metal watch bands) near battery terminals.

Battery replacement

For battery location, see Engine compartment overview on page 142.

For replacement, refer to a Holden Dealer or authorised repairer.

Caution

Do not dispose of batteries with household waste.

Use the local, authorised waste management facility.

Battery disconnection

The battery may discharge if the vehicle is not used for approximately four weeks.

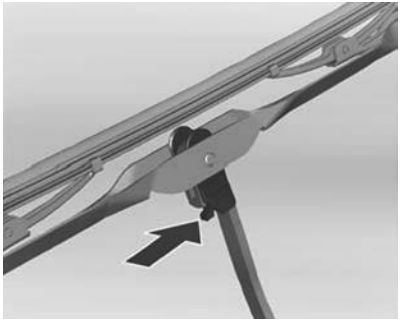
To disconnect the battery:

1. Turn the ignition off.
2. Disconnect the clamp from the negative terminal of the vehicle battery.

   Ensure the ignition is turned off before reconnecting the vehicle battery.

For emergency starting when the battery is flat, see Jump starting on page 177.

Wiper blade replacement



Regularly check the condition of the wiper blades.

1. Lift the wiper arm.
2. Press the release lever and detach the wiper blade.

For wiper blade cleaning, see Windows and windscreen wiper blades on page 182.

Bulb replacement

Contact a trained service technician if unsure about the bulb replacement process.

When replacing bulbs:

- Turn the ignition off and remove the key.
- Turn off related switches.
- Fit bulbs of the specified wattage only.
- Do not touch bulbs or reflectors with bare hands.
- Clean stained bulbs with methylated spirits.

Bulbs to be changed by a Holden Dealer

- Fog lamps
- Centre high-mounted stop lamp

Caution

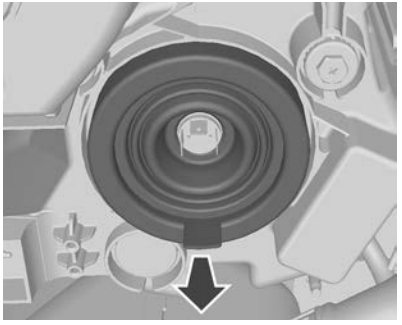
Condensation may temporarily appear on the inside of exterior lamp lenses after rain or washing the vehicle. Condensation occurs when there is a temperature difference between the inside and outside of the lamp allowing a fine mist on the inside surface of the lamp lens. This condensation will disappear when the vehicle is in a dry environment or the lamp is on. If water does collect in the lamp contact a Holden Dealer.

Headlamps

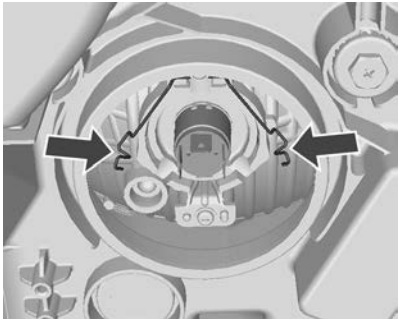
Front lamps are accessible from within the engine compartment.

Low and high beam:

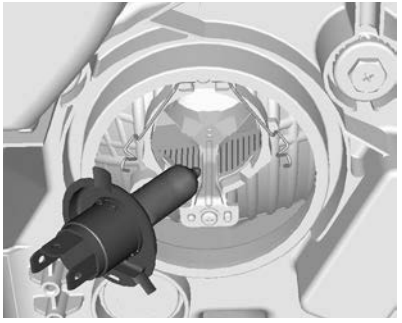
1. Detach the plug connector from the bulb.



2. Remove the protective cover.



3. Press the spring clip to disengage.



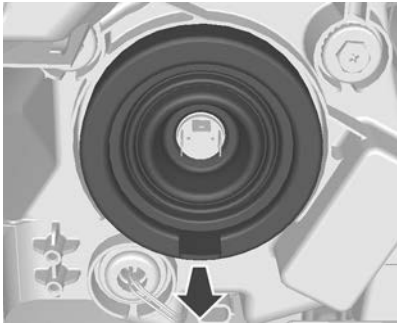
4. Remove the bulb from the reflector housing.
5. Fit the new bulb by engaging the lugs in the recesses on the reflector.
6. Engage the spring clip.
7. Place the headlamp protective cover into position and close.
8. Attach the plug connector onto the bulb.
9. Check lamp operation.

Headlamp aiming

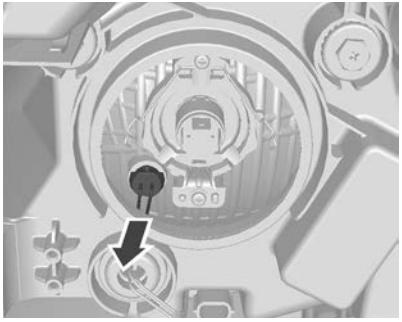
If the headlamps require adjustment, contact a Holden Dealer.

Parking lamps

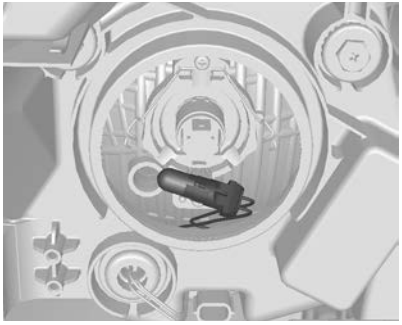
1. Detach the plug connector from the bulb.



2. Remove the protective cover.

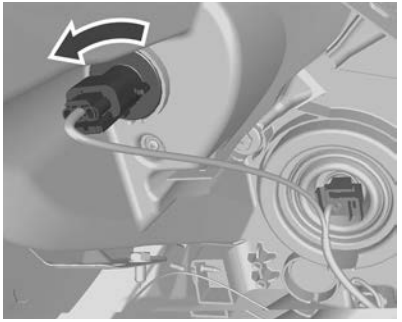


3. Remove the side lamp, bulb holder from the reflector.

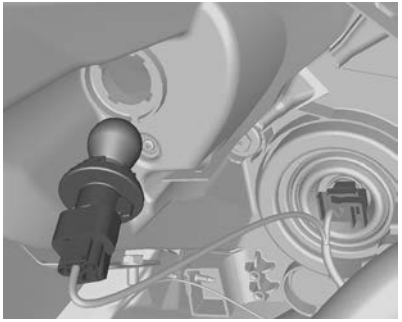


4. Remove the bulb from the socket.
5. Insert a new bulb.
6. Place the side lamp, bulb holder into the reflector.
7. Replace the headlamp protective cover into position and close.
8. Attach the plug connector onto the bulb.
9. Check lamp operation.

Front turn signal lamps



1. Rotate the bulb holder anticlockwise to disengage.

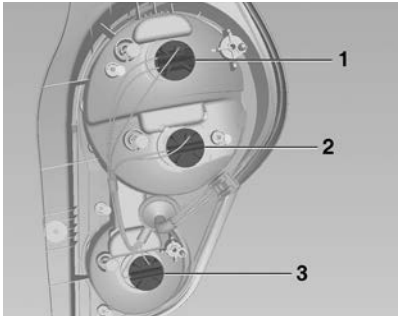


2. Push the bulb into the socket slightly and rotate anticlockwise to remove.
3. Insert a new bulb.
4. Place the bulb into the socket and rotate clockwise.
5. Replace the bulb holder and rotate clockwise to engage.
6. Check lamp operation.

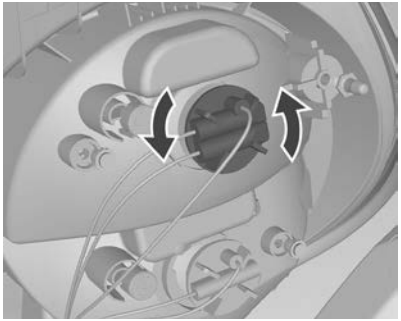
Tail lamps, turn signals, stop lamps and reverse lamps

1. Unscrew both screws.
2. Remove the tail lamp assembly.

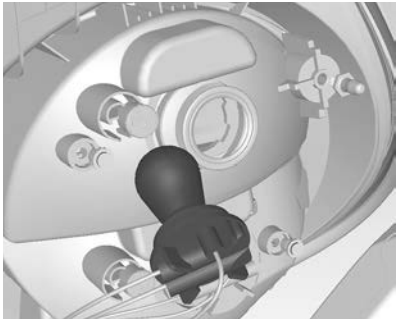
   Note
   Make sure the cable duct remains in position.



- Tail lamp/stop lamp (1)
- Turn signal lamp (2)
- Reverse lamp (3)



3. Rotate the bulb holder anticlockwise.

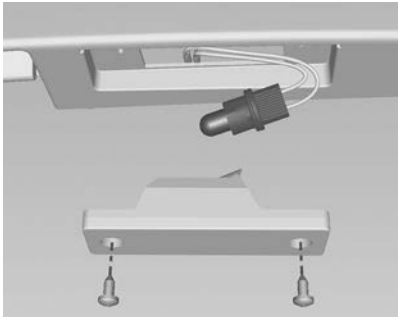


4. Push the bulb into the socket slightly and rotate anticlockwise to remove.
5. Insert a new bulb.
6. Insert the bulb holder into the tail lamp assembly and screw into place.
7. Install the tail lamp assembly into the body and tighten the screws.
8. Close the covers and engage.
9. Check lamp operation.

Side turn signal lamps

1. Push the lamp holder towards the rear of the vehicle and remove.
2. Rotate the bulb holder anticlockwise.
3. Pull the bulb out of the bulb holder.
4. Insert a new bulb.
5. Place the bulb into the bulb holder and rotate clockwise.
6. Replace the lamp holder.
7. Check lamp operation.

Number plate lamp



1. Unscrew the two screws.
2. Remove the bulb housing by pulling downwards.

   Do not to pull on the cable.
3. Rotate the bulb holder anticlockwise to disengage.
4. Remove the bulb from the holder.
5. Insert a new bulb.
6. Insert the bulb holder into the bulb housing and rotate clockwise.
7. Insert the bulb housing and replace the two screws.
8. Check lamp operation.

Interior lamps

Courtesy lamps

1. Using a flat-blade screwdriver, prise the lamp assembly outwards, from the side opposite the lamp switch.
2. Remove the bulb.
3. Insert a new bulb.
4. Reinstall the lamp assembly firmly into place.
5. Check lamp operation.

Electrical system

Fuses

⚠Warning

Turn off the ignition (LOCK position) and any electrical equipment before changing a fuse.

- Replace blown fuses promptly.
- A blown fuse can be recognised by its melted wire.
- Do not replace the fuse until the cause of the fault has been remedied.
- Some functions are protected by several fuses.
- The vehicle may not be equipped with all of the fuses, relays and features shown.

Fuse extractor

A fuse extractor can be located in the fuse box in the engine compartment.

Place the fuse extractor on the top or side of the fuse to extract the fuse.

Replace the fuse cover securely after use.

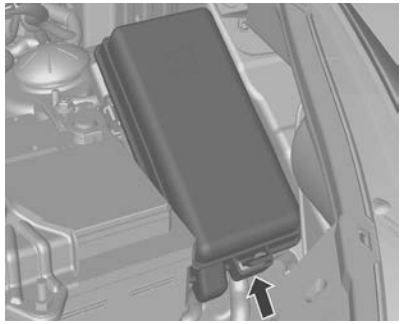
⚠Warning

When replacing a fuse be sure to use a fuse of the specified amperage.

Never install a wire or similar as it could damage electrical components and cause a fire.

Any improper alterations to the electrical system may cause a fire hazard and engine damage. To maintain your own safety and that of the vehicle, have any work involving the electrical system or the replacement of high current fuses or relays carried out by a Holden Dealer.

Engine compartment fuse box



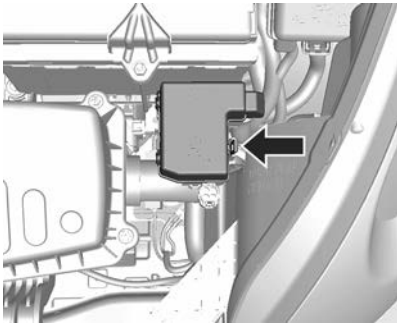
1. To disengage the cover, lift upwards and remove.

Note

- Not all fuse box descriptions may apply to your vehicle.
- When inspecting the fuse box, refer to the fuse box label inside the cover.

Auxiliary fuse box

(Automatic transmission)



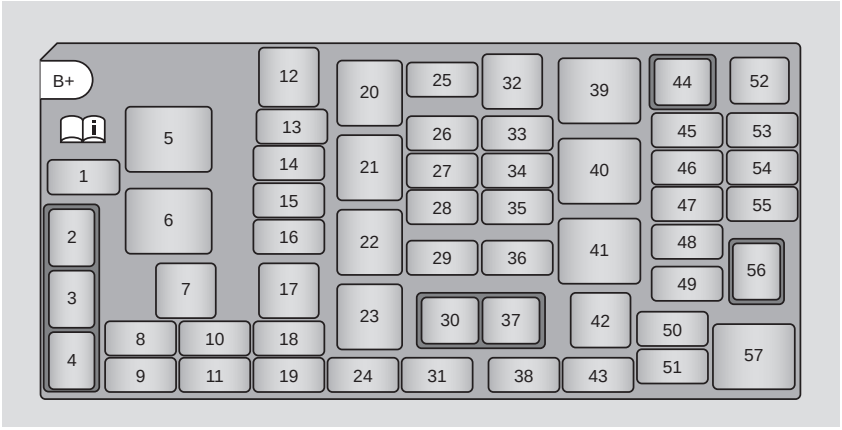
The auxiliary fuse box is located in the engine compartment.

1. Disengage the cover.
2. Lift the cover upwards and remove.

Note
When inspecting the fuse box, refer to the fuse box label.

Engine compartment fuse box

(Automatic transmission)



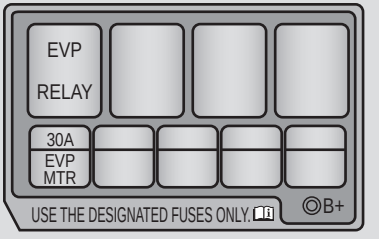
The vehicle may not be equipped with all of the fuses, relays and features shown.

1. Windscreen washer
2. Rear Windscreen washer relay
3. Front Windscreen washer relay
4. Horn relay
5. Fan high relay
6. Fan low relay
7. ABS1
8. Horn
9. -
10. -
11. Spare fuse
12. Fan high
13. Front fog
14. Headlamp high left
15. Headlamp high right
16. Fan low
17. ABS2
18. TCM
19. Spare fuse

20. Front fog relay
21. Headlamp high relay
22. Fuel pump relay
23. TCM relay
24. Spare fuse
25. ABS3
26. EMIS2
27. Canister
28. Fuel pump
29. Front wiper
30. Front wiper control relay
31. Spare fuse
32. Starter
33. Ignition
34. EMIS1
35. -
36. -
37. Front wiper speed relay
38. -
39. Starter relay
40. Engine relay
41. Run/crank relay
42. Interior electrical centre
43. -
44. Air conditioner relay
45. Air conditioner
46. ECM/TCM1
47. ECM/TCM2
48. Low vacuum switch
49. AOS
50. Mirror heater
51. Rear defog
52. Fuse puller
53. TCM relay coil
54. Voltage sensing
55. Rear wiper
56. Rear wiper relay
57. Rear defog relay

Auxiliary fuse box

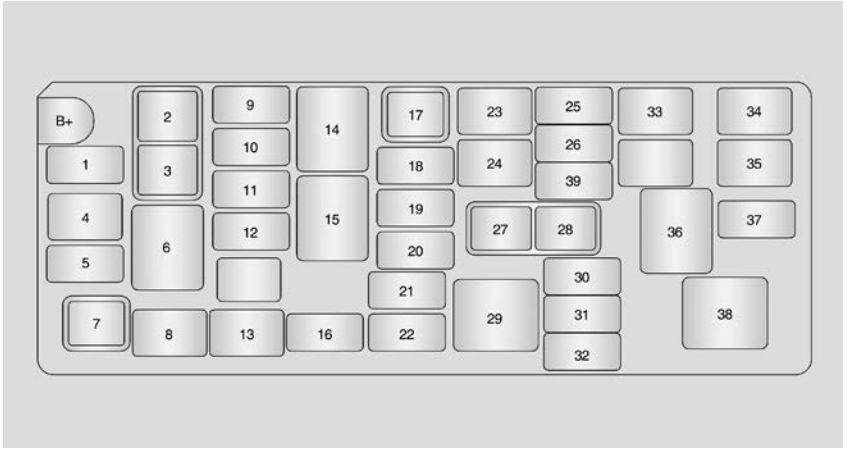
(Automatic transmission)



1. EVP relay
2. -
3. -
4. -
5. EVP motor
6. -
7. -
8. -

Engine compartment fuse box

(Manual transmission)

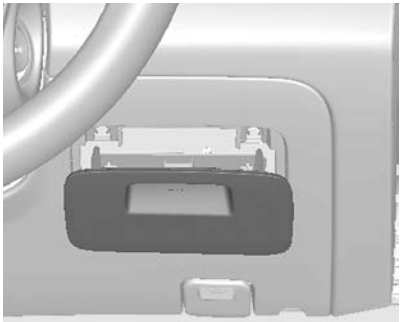


The vehicle may not be equipped with all of the fuses, relays and features shown.

1. Fuel pump
2. Park relay
3. Fan low relay
4. Fan high
5. Air conditioning
6. Fan high relay
7. Air conditioning relay
8. ABS2
9. Park LH
10. Park RH
11. Front fog
12. Fan low
13. ABS1
14. Front fog relay
15. Fuel pump relay
16. Spare fuse
17. Headlamp high relay
18. Headlamp high
19. Headlamp low LH

20. Headlamp low RH
21. Spare fuse
22. Spare fuse
23. Ignition2/starter
24. Ignition1/accessory
25. Hazard lamps
26. Horn
27. Headlamp low relay
28. Horn relay
29. Engine main relay
30. Ignition
31. EMIS1
32. EMIS2
33. Instrument panel battery
34. -
35. Front window
36. Front window relay
37. Engine control unit
38. Evap relay

Instrument panel fuse box



The interior fuse box is located on the underside of the driver side of the instrument panel.

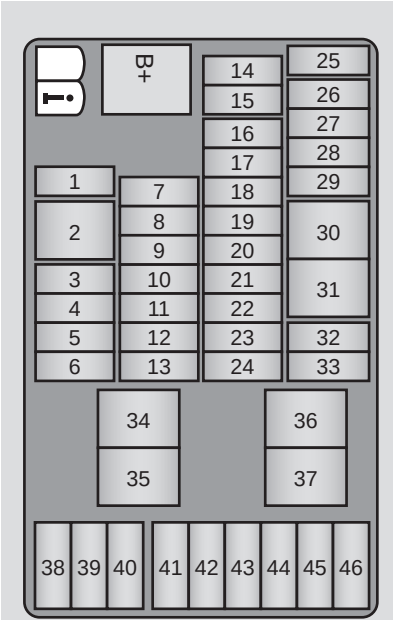
To remove the cover:

1. Pull the fuse panel door out at the top to unclip.

To replace the cover:

1. Locate the fuse panel door at the bottom.
2. Push the fuse panel door in at the top to secure the clips.

Instrument panel fuse box (Automatic transmission)

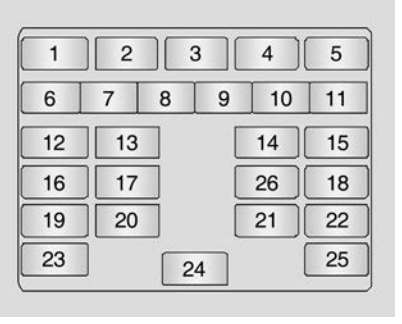


The vehicle may not be equipped with all of the fuses, relays and features shown.

1. -
2. -
3. Heating ventilation and air conditioning switch
4. -
5. -
6. Blower
7. Body control module -4
8. Body control module -5
9. Body control module -7
10. Instrument panel cluster
11. -
12. Air bag power
13. -
14. SWC BKLT
15. -
16. Body control module -1
17. Body control module -2
18. Body control module -3
19. Body control module -6
20. Body control module -8
21. -
22. Data link connection
23. Discrete logic ignition sensor
24. Outside rear view mirror
25. -
26. -
27. -
28. Instrument panel cluster
29. Air bag ignition
30. -
31. Front window
32. Auxiliary power outlet
33. -
34. Run relay
35. Logic mode relay
36. Accessory/retained accessory power relay
37. -
38. Radio

39. Heating ventilation and air conditioning
40. -
41. Spare fuse
42. Spare fuse
43. Spare fuse
44. Spare fuse
45. Spare fuse
46. Spare fuse

Instrument panel fuse box (Manual transmission)



The vehicle may not be equipped with all of the fuses, relays and features shown.

1. Rear wiper
2. Mirror/outside rear view mirror
3. Headlamp
4. Electric outside rear view mirror
5. Door lock
6. Front wiper
7. Spare fuse
8. Reverse lamps
9. Turn signals
10. Rear demister
11. Rear lamps
12. Instrument panel
13. Blower
14. Airbag
15. Theft deterrent/data link connector
16. -
17. -
18. Radio/remote keyless entry/ remote entry
19. Engine control module (ECM)/ theft deterrent
20. Heat mat
21. Power socket
22. Stop lamps
23. Starter
24. Radio/clock/remote keyless entry
25. Airbag
26. Interior lamps

Vehicle tools

Tools

Tyre repair kit

The vehicle may have an emergency tyre sealant and compressor kit in place of a spare tyre.

The tools, tyre sealant and compressor kit are located below the floor cover, in the load compartment.

Spare tyre

The vehicle may have a spare tyre.

The jack and tools are located in a tool kit, in the load compartment, above the spare wheel.

Wheels and tyres

Tyre and rim condition

- Do not drive over sharp edges to avoid tyre and rim damage and possible tyre blowout.
- Drive over edges slowly and at right angles, if possible.
- When parking, ensure the tyres are not pressed against the edge of the curb.
- Check the tyres regularly for damage, stones, punctures, cuts, cracks, bulges etc. Check the rims for damage. Contact a Holden Dealer, if in doubt.

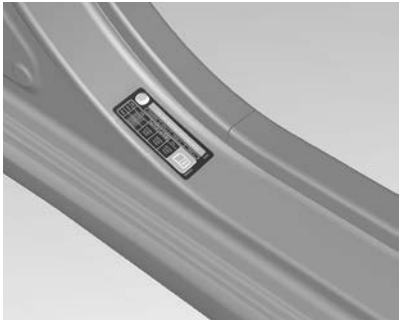
Tyre pressure

Keep the tyres at the recommended pressures to avoid increased fuel consumption, uneven and premature tyre wear.

The correct pressures are shown on the tyre placard and in the tyre pressure table. See Tyre pressure on page 192.

- Tyre pressure should be checked when cold as tyre pressure will increase as the tyres warm up.
- Check the air pressure of tyres (including the spare) weekly, to ensure occupant safety, as well as reducing fuel consumption and increasing the life of the tyres.
- Replace any valve dust caps or extensions.

Tyre placard



The correct pressures for tyres are shown on the tyre placard in the driver's door frame and in the tyre pressure table. Refer to Tyre pressure on page 192.

- Always inflate the spare tyre to the pressure specified for maximum load.
- Use the ECO tyre pressure for fuel economy driving at normal load.

Tread depth

Check tread depth at regular intervals.

- Replace the tyres when:

  They are worn to the point where the tread wear indicators (TWI) appear.

  The tyres originally fitted to the vehicle have built in TWI. These show as plain bars across the tread pattern at regular intervals across the tyre.

- If there is more wear on the front tyres than on the rear tyres, swap the front and rear wheels.

  Ensure that the direction of rotation of the wheels is the same as previous.
- Tyres age even if they are not used. Replacement of tyres every six years is recommended.

⚠Warning

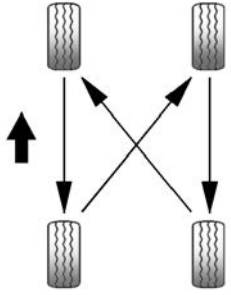
Do not attempt to drive on a flat tyre more than is necessary to stop safely. Driving even a short distance can damage the tyre and wheel beyond repair. Tyres which have been repaired or retreaded are not capable of being driven safely at high speeds. Therefore, their use is not recommended.

Tyre rotation

It is recommended that you:

- Rotate tyres approximately every year or 15,000 km, whichever occurs first.

  Driving conditions, driving techniques, vehicle loading and weather may warrant more frequent tyre checks and rotation.



Front and rear tyres can wear differently depending on:

- Types of roads driven on
- Driving habits
- Tyre pressures
- Wheel alignment and balance

New tyres should be fitted in pairs to the front. If replacing only one tyre, pair it on the same axle with the least worn of the other three.

Buying new tyres

Refer to the tyre placard on the vehicle for tyre size and load rating.

Using a different size or type of tyre may affect:

- Ride
- Handling
- Speedometer accuracy
- Vehicle ground clearance
- Tyre clearance
- Snow chain clearance

⚠Warning

Do not use different sizes or types of tyres and wheels than those originally fitted to the vehicle. Safety and performance of the vehicle may be affected. It may also affect handling and lead to serious injury.

When replacing tyres, install all four tyres and wheels of the same size, type, tread, brand and load-carrying capacity.

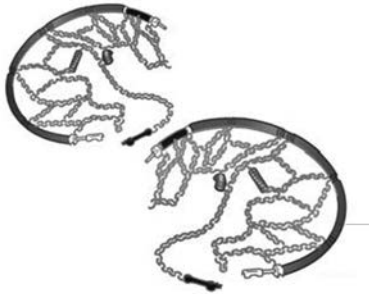
Wheel covers

Use wheel covers and tyres that are factory approved for the vehicle and which comply with all of the relevant wheel and tyre combination requirements.

⚠Warning

Use of incorrect tyres or wheel covers may result in damage to the vehicle and personal injury.

Tyre chains



Tyre chains are only permitted on the front wheels.

Always use fine mesh chains that add no more than 10 mm to the tyre tread and the inboard sides, including the chain lock.

⚠Warning

Tyre chains may only be used at speeds up to 50 km/h. Tyre chains should only be used for short distances if the roads are not snow covered. The hard road surface causes rapid wear and the chain may break. Tyre chain links should not be thicker than 10 mm and the clasp should be well away from the bodywork. Thicker chains may damage the vehicle body.

Tyre sealant and compressor kit

The vehicle may have an emergency tyre sealant and compressor kit, in place of a spare tyre.

The repair kit:

- Repairs minor damage to the tyre tread or sidewall.

  Do not remove any objects that have penetrated the tyre.
- Repairs damage up to 4 mm in the tread area of the tyre.
- Does not repair damage at the tyre's side wall, near the rim.

Take the vehicle to a Holden Dealer to have the tyre repaired or replaced as soon as possible.

⚠Warning

Do not drive faster than 80 km/h.

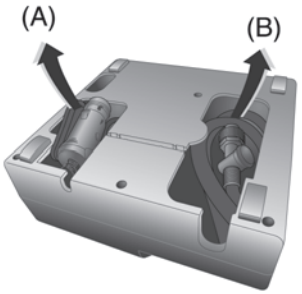
Do not drive on the repaired tyre for an extended time. Steering and handling may be affected.

Note

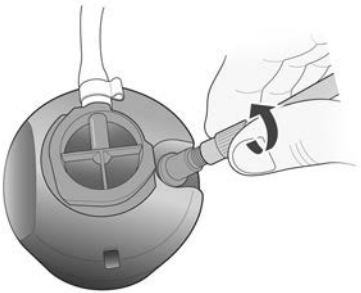
- If unusual noises are heard or the compressor becomes hot, turn the compressor off for at least 30 minutes.
- Check the expiry date on the tyre sealant canister before use. The tyre sealant canister must be replaced before its expiry date.
- The compressor and sealant can be used from approximately –30°C to 70°C.

Temporary puncture repair

1. Apply the park brake.
2. Place the shift lever into either first or reverse gear.
3. Remove the tyre repair kit from the compartment, under the floor cover, in the load compartment.
4. Remove the compressor and the sealant bottle.



5. Remove the electrical connection cable (A) and air hose (B) on the underside of the compressor.

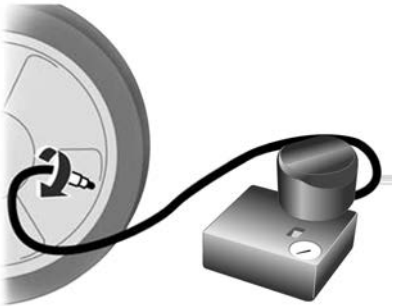


6. Place the switch on the compressor to **O**.
7. Screw the compressor air hose to the connection on the sealant bottle.
8. Connect the compressor plug to the accessory socket.
9. Start the engine and let it idle to ensure the battery does not run down.

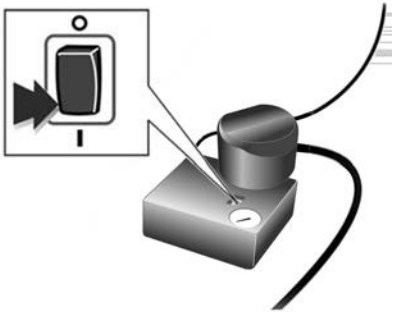
⚠Warning

Do not run the engine in an enclosed area or with passengers in the vehicle. See page 134 for exhaust gas warnings.

10. Place the compressor near the tyre so that the sealant bottle is upright.
11. Fit the sealant bottle into the retainer on the compressor.



12. Unscrew the valve cap from the defective tyre.
13. Screw the filler hose to the tyre valve.



14. Press the switch on the compressor to **I**.

    The tyre fills with sealant.

    The compressor pressure gauge briefly indicates up to 6 bar while the sealant bottle is emptying (approx. 30 seconds).

    The pressure starts to drop.

    Once the sealant is pumped into the tyre, the tyre is inflated.
15. The tyre pressure (approximately 2.2 bar) should be obtained within 10 minutes.
16. When the correct pressure is obtained, switch off the compressor.

⚠Warning

Do not over inflate tyres due to risk of injury or damage to the tyre.

17. If the tyre pressure is not obtained within 10 minutes, remove the tyre repair kit.
18. Move the vehicle one tyre rotation.
19. Reattach the tyre repair kit and continue the filling procedure for 10 minutes.

⚠Warning

If the recommended pressure cannot be reached after approximately 10 minutes, the vehicle should not be driven. The tyre is too severely damaged and the tyre sealant and air compressor kit cannot inflate the tyre. Disconnect and stow the tyre sealant and air compressor kit back in its original position. Contact a Holden Dealer.

20. Drain excess tyre pressure with the button over the pressure indicator.

    Do not run the compressor longer than 10 minutes.

21. Detach the tyre repair kit.
22. Push the catch on the bracket to remove the sealant bottle from the bracket.
23. Screw the tyre inflation hose to free the connection from the sealant bottle. This prevents sealant from escaping.
24. Stow the tyre sealant and air compressor kit in the load compartment.

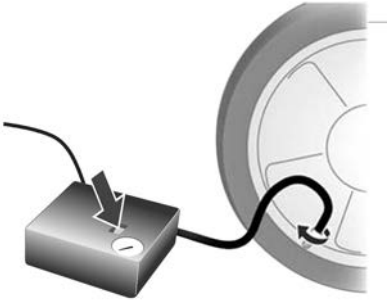
⚠Warning

Always stow the tyre sealant and air compressor kit in its original position. Unsecured loads increase the risk of injury during heavy braking, sudden avoidance manoeuvres or a collision.

25. Remove any excess sealant using a cloth.
26. After inflating the tyre, remove the maximum speed label and place it in a visible location.

    It reminds you to drive cautiously and not to exceed 80 km/h until the damaged tyre is replaced or repaired.

27. Continue driving immediately so that sealant is evenly distributed within the tyre.
28. After driving approximately 10 km (but no more than 10 minutes), stop at a safe location to check the tyre pressure.



29. Screw the compressor air hose directly onto the tyre valve and compressor to check the tyre pressure.
30. If the tyre pressure is more than 1.3 bar, set it to the correct value (approx. 2.2 bar).

31. Repeat the procedure from Step 27 until there is no more loss of pressure.

    If the tyre pressure has fallen below 1.3 bar, do not continue driving. Contact a Holden Dealer.

32. Dispose of the used tyre sealant canister at a Holden Dealer or in accordance with local and State codes and practices. Replace with a new canister.

33. Stow the tyre sealant and compressor kit in the load compartment.

This is a temporary puncture repair. Take the vehicle to a Holden Dealer to have the tyre repaired or replaced as soon as possible.

Tyre changing

The vehicle may have a spare tyre.

⚠Warning

All passengers must be out of the vehicle when it is being jacked.

Do not jack a vehicle with a trailer attached. Remove the trailer first.

Only jack the vehicle on hard, level surfaces.

Ensure moving parts of the jack are adequately lubricated before use.

Use the jack only at the designated lifting points. Use in other locations may result in the vehicle falling off the jack, or damage to the vehicle.

Do not start or run the engine while the vehicle is supported by the jack.

Use the jack only for lifting the vehicle when changing wheels.

Do not get under a vehicle that is supported by a jack. No person should place any portion of their body under a vehicle that is supported by a jack.

Vehicles with alloy wheels may have a steel spare wheel. Drive carefully and do not exceed 80 km/h if the tyre size or tread pattern of the spare tyre is different to the other tyres on the vehicle. Although the spare tyre was fully inflated when the vehicle was new, it can lose air over time. Check the inflation pressure regularly.

After installing the spare tyre on the vehicle, stop as soon as possible to check the inflation pressure is correct. Have the flat tyre repaired or replaced and installed back on the vehicle as soon as possible.

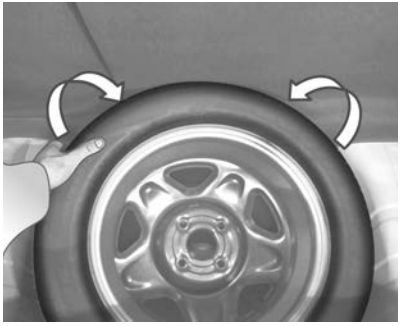
Removing the spare tyre

The spare tyre is located in the load compartment beneath the floor covering.

1. Park on a hard, level surface, in a safe location.
2. Apply the park brake firmly.
3. Switch the hazard warning flashers on.
4. Remove the ignition key.
5. Apply the park brake.
6. Place the shift lever into reverse gear.
7. Chock the wheel diagonally opposite the flat tyre with a suitable solid object.

   Note
   Do not change more than one wheel at one time.
8. Fold down the rear seatback on the driver side:

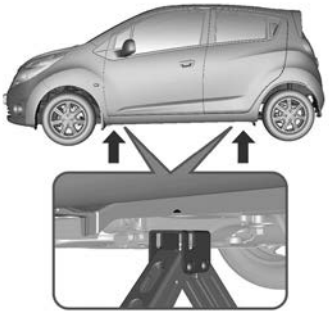
   Pull the release knob upwards and fold.
9. Remove the tools from the load compartment.
10. Undo the wing nut.



11. Remove the spare wheel from the load compartment:

    Lift from the forward face to remove, not from the rear.

12. Place the wheel wrench over the wheel nuts and loosen by half a turn, but do not remove the wheel nuts.



13. Position the jack beneath the jack location closest to the wheel being changed.

    The locations are identified by cutouts in the underside of the door sill.

14. Rotate the jack handle to raise the head slightly.

15. Attach the jack handle to the jack and attach the wheel wrench to the jack handle.
16. Wind the jack up by hand until it engages with the jacking point.

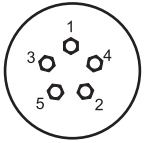
    Ensure that the jack is not tilted and the base is resting squarely on the ground.

⚠Warning

Failure to position the jack as described could cause the vehicle to slip off the jack.

Do not get under a vehicle that is supported by a jack. No person should place any portion of their body under a vehicle that is supported by a jack.

17. Rotate the wrench checking the correct position of the jack, until the wheel is clear of the ground.
18. Unscrew the wheel nuts and place in a clean, dry place.
19. Exchange the wheel on the vehicle with the spare wheel.
20. Clean the wheel nuts and thread before replacing, then lightly tighten with the wheel nut wrench.
21. Lower the vehicle by reversing the jacking procedure.
22. Remove the jack from under the vehicle.



23. With the wheel on the ground, use the extended wheel nut wrench to tighten the wheel nuts in the sequence shown.
24. Replace the flat tyre and tools in the load compartment.
25. Lift the rear seatback upwards and push firmly back into place.
26. Have the flat tyre renewed or repaired.

⚠Warning

As soon as possible after changing a wheel, have the wheel nuts tightened with a torque wrench to 120 Nm (Newton metres). Wheel nuts must be tightened evenly to the correct torque, as wheel nuts which have not been tightened properly could eventually allow the wheel to come off while the vehicle is moving.

Jump starting

Read the following warnings and procedure in full before attempting to jump start the vehicle.

If you are still unsure about jump starting, Holden strongly recommends for your safety and that of the vehicle that you seek the assistance of a suitably trained service technician.

⚠Warning

Do not push start or tow start the vehicle. If unburnt fuel were to reach the catalytic converter and ignite, the converter could overheat or be destroyed by backfire. Therefore, if the battery is flat, jump start, but do not push start the vehicle.

Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, adhere to the following when working near a battery:

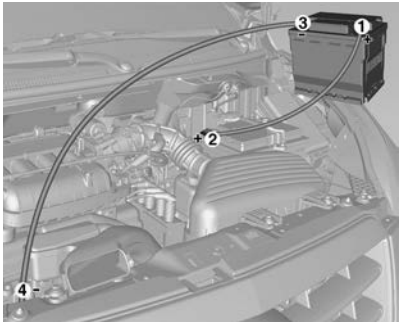
- Do not attempt jump starting directly from the battery in the engine compartment.
- Do not let the jumper lead clamps touch each other or other metal parts.
- Do not allow the jumper leads to contact any rotating engine components.
- Do not use open flames or sparks near the battery.
- Do not smoke near the battery.
- Never use a quick charger to start the engine.
- The battery must be removed from the vehicle for recharging.
- Wear eye protection such as safety glasses and avoid leaning over the battery.
- Battery acid is corrosive. If it gets on your skin, wash with plenty of water immediately. If it gets in your eyes you should not only flush with lots of water, but should also seek medical help. Battery acid also damages paint and fabrics. To minimise damage, wash it off immediately.
- Remove rings, metal watch bands and other metal jewellery before working around the battery.

• If a permanently connected hands free telephone kit is fitted to the vehicle, remove the fuse for the telephone kit before jump starting. Remember to replace the fuse afterwards.

- A discharged battery can freeze at temperatures of 0°C.

  Defrost the frozen battery before connecting jumper leads.
- Use a booster battery with the same voltage (12 volts). Its capacity (Ah) must not be much less than that of the discharged battery.
- Use jumper leads with insulated terminals and a cross section of at least 16 mm^2.
- Do not disconnect the discharged battery from the vehicle.
- Switch off all unnecessary electrical devices.
- The vehicles must not come into contact with each other during the jump starting process.

1. Position the two vehicles so that they are not touching.
2. Apply the park brakes.
3. Place the shift lever in neutral.
4. Turn the ignition off.
5. Turn off all lamps and accessories in both vehicles, except the hazard warning flashers or any lights needed for the work area.



6. Connect one end of the RED lead to the positive terminal of the booster battery (1).
7. Connect the other end of the RED lead to the positive terminal of the discharged battery (2).
8. Connect the BLACK lead to the negative terminal of the booster battery (3).
9. Connect the other end of the BLACK lead to a vehicle grounding point, such as the engine block or an engine mounting bolt (4).

   Connect as far away from the discharged battery as possible (at least 60 cm).

   Note

   Route the leads so that they cannot catch on rotating parts within the engine compartment.
10. Start the engine of the vehicle providing the jump start and allow to idle for at least 5 minutes.
11. Start the engine of the vehicle with the flat battery.

    Start attempts should be made for no longer than 15 seconds at an interval of 1 minute.

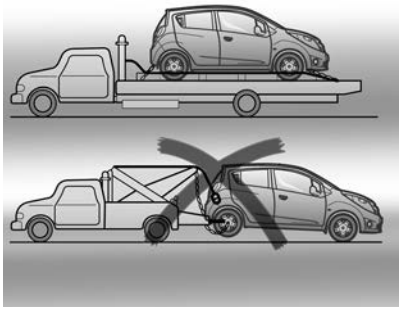
12. Allow both engines to idle for approximately 3 minutes with the leads connected.
13. Switch on the headlamps and the heated rear window of the vehicle that received the jump start.
14. Leave the engines running while removing the BLACK negative jumper lead first, followed by the RED positive jumper lead.

Note
While removing each clamp, do not touch any other metal while the other end remains attached.

Towing

Towing the vehicle

Flat-bed tow truck



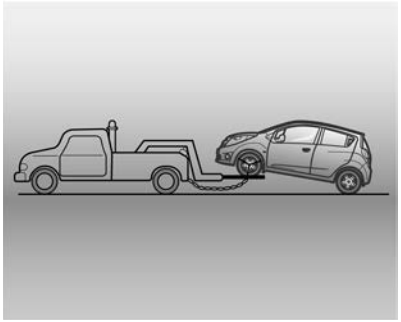
A flat-bed tow truck is the best method of towing the vehicle to avoid damage.

When loading onto a flat-bed tow truck, only use the rear towing eye to pull the vehicle. See Towing another vehicle on page 180.

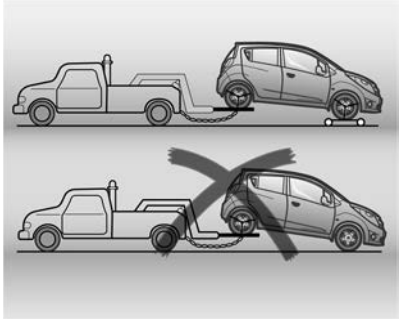
Caution
To prevent damage, do not use the front lashing points for towing the vehicle.

Standard tow truck

If a flat-bed tow truck is not available:



1. Use a standard tow truck, where the front wheels are raised and the rear wheels are in contact with the ground.



2. Alternatively, use a standard tow truck and a towing dolly to prevent the front wheels from contacting the road.

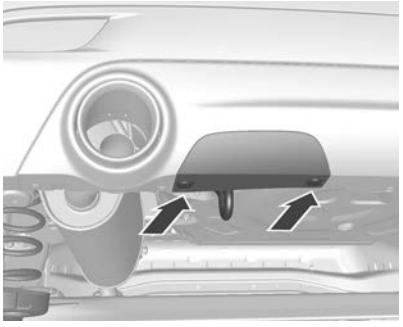
Caution

If the vehicle is towed with the front wheels contacting the road, the vehicle's drive system could be severely damaged.

Towing another vehicle

The rear towing eye is located under the rear bumper.

The towing eye must only be used for towing and not for recovering a vehicle.



The vehicle has a cover on the rear bumper, in front of the rear towing eye.

1. Remove the two clips from the cover.
2. Disengage the cover by pulling backwards.
3. After towing, reinstall the cover firmly.

⚠Warning

To prevent damage, use only proper towing equipment.

Appearance care

Exterior care

Washing

The paintwork of the vehicle is exposed to environmental influences. Wash and wax regularly. When using automatic vehicle washes, select a programme that includes waxing.

Bird droppings, dead insects, resin, pollen and the like should be cleaned off immediately, as they contain aggressive constituents which can cause paint damage. Failure to do so may result in permanent damage, particularly in hot weather conditions.

Road bloom is a gradual build up of road and environmental grime. This should be removed with a paint cleaner once a year, in addition to normal washing.

If using a vehicle wash, comply with the vehicle wash manufacturer's instructions. Never use an automatic wash that requires anything touching the paint (other than water). The wipers must be switched off. Remove the antenna and external accessories.

If you wash your vehicle by hand, make sure that the insides of the wheel housings are also thoroughly rinsed out.

Clean edges and folds on opened doors and the bonnet as well as the areas they cover.

Have the door hinges of all doors greased by a Holden Dealer.

Caution

Do not clean the engine compartment with a steam-jet or high-pressure jet cleaner.

Thoroughly rinse and chamois off the vehicle. Rinse chamois frequently. Use separate chamois for painted and glass surfaces: remnants of wax on the windows will impair vision.

Do not use hard objects to remove spots of tar. Use tar removal spray on painted surfaces.

⚠Warning

Take care when moving the vehicle after washing, in case water has affected the brakes. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with a clear area ahead, until brake performance returns to normal.

Exterior lamps

Headlamp and other lamp covers are made of plastic. Do not use any abrasive, solvent based cleaners or caustic agents and do not dry-clean them.

Air intakes

Clear debris from the air intakes, between the bonnet and windscreen and below the front bumper, when washing the vehicle.

Polishing and waxing

Wax the vehicle regularly (at the latest when water no longer beads).

Polishing is necessary only if the paint has become dull or if solid deposits have become attached to it.

Paintwork polish with silicone forms a protective film, making waxing unnecessary.

Plastic body parts must not be treated with wax or polishing agents.

Windows and windscreen wiper blades

Use a soft lint-free cloth or chamois leather together with window cleaner and insect remover.

- Never use abrasive cleaners to clean glass.
- Refer to a Holden Dealer for windscreen washer additive.
- Old wiper blades can cause windscreen scratching. Regularly inspect and replace them.

Caution

Do not operate the wiper blades by hand as this damages the wiper drive mechanism.

When cleaning the rear window, make sure the heating element inside is not damaged.

Clean smearing wiper blades with a soft cloth and window cleaner.

Wheels and tyres

Do not use high-pressure jet cleaners.

- Remove oil and grease with soap and water or detergent.
- Do not use petrol to clean tyres.
- Use a good quality tyre and bumper shine if required.
- A good quality wheel cleaner can be used for cleaning alloy wheels.
- Do not use abrasive cleaners.

Paintwork damage

Rectify minor paintwork damage with a touch-up pen before rust forms.

Have more extensive damage or rust areas repaired by your Holden Dealer.

Caution

Do not spill coolant on the vehicle's exterior surfaces as it can damage the paint work. If you do, wash it off immediately.

Underbody

Substances can cause rust under the vehicle.

- Hose the underbody with clean water whenever the vehicle is washed.
- Where the vehicle is exposed to heavy concentrations of corrosive materials, inspect and wash the complete underbody at least once each year, preferably after winter exposure.

Interior care

⚠Warning

Many cleaning products are toxic, flammable or may damage the interior. When cleaning the interior, avoid volatile cleaners such as acetone, lacquer thinners, enamel reducers, nail polish removers, or cleaners such as laundry soaps, bleaches or reducing agents. Never use carbon tetrachloride, petrol or naphtha for any cleaning purpose. Ensure that the vehicle is well ventilated while using any cleaners and always follow the cleaning product manufacturer's recommendations. Water based cleaners, rather than solvent based cleaners, are recommended.

Steam cleaning of seats is not recommended.

Interior and upholstery

Only clean the vehicle interior, including the instrument panel fascia and panelling, with a dry cloth or interior cleaner.

The instrument panel should only be cleaned using a soft damp cloth.

Clean fabric upholstery with a vacuum cleaner and brush. Remove stains with an upholstery cleaner.

Clean seat belts with a mild, non-abrasive soap and lukewarm water.

After washing, thoroughly, sponge the solution out of the belts.

Caution

Close Velcro fasteners as open Velcro fasteners on clothing could damage seat upholstery.

Plastic and rubber parts

Plastic and rubber parts can be cleaned with the same cleaner as used to clean the body. Use interior cleaner if necessary. Do not use any other agent. Avoid solvents and petrol in particular. Do not use high pressure jet cleaners.

Service and maintenance

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Recommended fluids, lubricants and parts 187

General information

Service information

In order to ensure economical and safe vehicle operation and to maintain the value of your vehicle, it is of vital importance that all maintenance work is carried out at the proper intervals as specified.

See your Service/Warranty Booklet for the service schedules and for more information.

Engine oil life system

(Automatic transmission)

Changing engine oil

Automatic transmission vehicles have a computer system that indicates when to change the engine oil and filter. This is based on a combination of factors which include engine revolutions, engine temperature and kilometres driven.

Based on driving conditions, the kilometres at which an oil change is indicated can vary considerably.

For the oil life system to work properly, the system must be reset every time the oil is changed.

When the system has calculated that oil life has been diminished, it indicates that an oil change is necessary. The vehicle message Code 82 or Change % (Change engine oil soon) is displayed.

Change the oil as soon as possible within the next 1,000 km.

It is possible that, if you are driving under the best conditions, the oil life system may not indicate that an oil change is not necessary for a longer period than that shown in the service schedule. However, the engine oil and filter must be changed in accordance with the service schedules outlined in the service booklet.

A dealer has trained service people who will perform this work and reset the system.

Recommended fluids, lubricants and parts

Engine type	1.2 L Petrol (Manual transmission)	1.25 L Petrol (Automatic transmission)
Engine oil specification	5W/30 dexos (dexos™ 1)	5W/20 dexos (dexos™ 1) (alternative viscosity: 5W/30)
Coolant specification	50% clean fresh water and 50% Dexcool® anti-freeze coolant, conforming to specification number GM6277M	
Manual transmission fluid	SAE 75W-85W; API GL4	–
Automatic transmission fluid	–	Aisin AW-1:GM Part number: 93165147
Brake fluid	DOT 4 Hydraulic brake fluid, conforming to specification number GMW3356	
Battery	12 volts, 50 amp hours	

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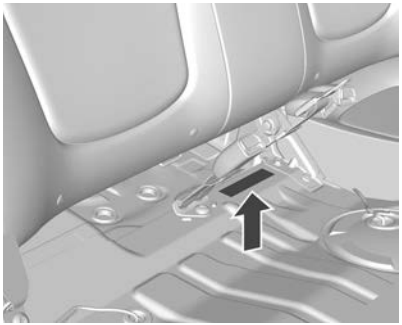
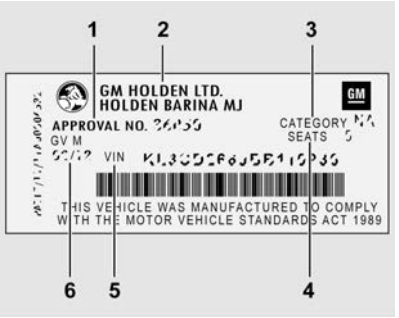
Vehicle identification

Vehicle identification number (VIN)



Each vehicle has its own, individual International Standards Organisation Vehicle Identification Number (ISOVIN), which is shown under the rear seat cushion.

Identification plate



An identification label is located on the front passenger's door frame.

The label shows:

1 = Approval number

2 = Manufacturer

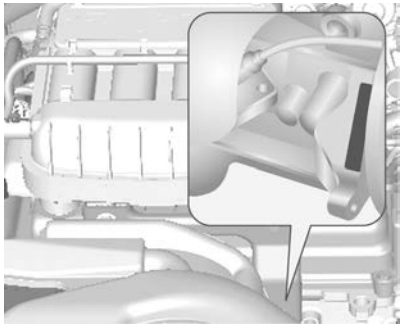
3 = Category

4 = Number of seats

5 = Vehicle identification number

6 = Compliance date

Engine serial number



The engine serial number is located in the front part of the engine compartment.

Vehicle data

Engine data

Engine type	1.2 L DOHC Petrol	1.25 L DOHC Petrol
Number of cylinders	4	4
Engine identifier code	B12D1	B12D2
Engine capacity	1206 cc	1249 cc
Engine power	Please refer to holden.com.au	
Engine torque	Please refer to holden.com.au	
Octane rating (RON)	Unleaded regular 91 or higher	
Ethanol compatibility	E10	

Vehicle weight

Overloading is a safety hazard and could also shorten the life of the vehicle.

Maximum vehicle payloads

	Occupants (average 68 kg each)	Luggage (kg)	Total load (kg)
5 door hatch	5	68	408

Axle loads

Maximum front and rear axle loads

Do not exceed the maximum axle loads, including the weight of any options or accessories fitted to the vehicle. Weigh at a weighbridge if unsure.

	Front axle load (kg)	Rear axle load (kg)
5 door hatch	750	700

Dimensions (mm)

	Length	Width excl. mirrors	Width incl. mirrors	Height	Wheel base
5 door hatch	3595	1597	1910	1522	2375

The above figures are based on the design dimensions.

Capacities

Engine type	Petrol
Refill engine oil including filter (approximately)	3.8 L
Coolant (approximately)	4.7 L
Automatic transmission fluid (approximately)	4.7 L
Fuel tank	35.0 L

Tyre pressure

Tyre size	Recommended pressure													
	Normal load				Maximum load				Eco normal load				Spare	
	Front		Rear		Front		Rear		Front		Rear		-	
	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI
165/65 R14	220	32	220	32	235	34	235	34	240	35	240	35	240	35
165/60 R15													-	-

Customer information

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Customer satisfaction procedure

We want you to be happy with your new vehicle, together with the people you deal with while you have the vehicle.

Normally, any problems with the sales, operation, servicing, parts/accessories or the validity of original equipment supplied with your vehicle will be handled by your Holden Dealer Sales and Service Department.

We realise however that, with the best intentions, misunderstandings sometimes occur.

Therefore, we suggest you discuss any concern with one of the Holden Dealer management people.

If you have not received satisfaction from the Sales Manager or Service Manager, go to the General Manager or to the Dealer Principal.

By now you should have satisfaction. If not, the Holden Customer Assistance office is at your disposal.

Customer assistance offices

Australia

The Holden Customer Assistance representatives can be telephoned from anywhere within Australia for only the cost of a local call.

The contact number is:

1800 033 349

Naturally, telephoning is the quickest and the best way to contact. However, if you prefer to write the address is:

The Manager
Holden Customer Assistance Centre
GPO Box 1714
Melbourne 3001

Your letter should clearly outline your concern or query and include:

- Your name and address
- Telephone numbers, both private and business
- Servicing dealer's name and address
- Vehicle model
- Vehicle identification number (I.S.O.V.I.N.), refer to the inside front cover of the Service/ Warranty Booklet in your vehicle's glove box
- Date of purchase
- Current odometer reading

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of the Service/Warranty Booklet in your vehicle's glove box.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

New Zealand

The information in this Owner's Handbook applies primarily to Australian Holden vehicles and there may be some differences to the Warranty and Owner Assistance provisions for New Zealand.

Applicable details for New Zealand are set out in the Holden Warranty and Owner Assistance Information booklet enclosed in the New Zealand glove box wallet.

New Zealand Assistance can be reached on:

0800 HOLDEN (**0800 465 336**)

This number provides access to New Zealand Roadside Assistance as well as New Zealand Customer Assistance.

If you prefer to write the address is:

The Manager
Holden Customer Assistance Centre
P.O. Box 11195
Ellerslie
Auckland 1542
New Zealand

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